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इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
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1-137GI/87

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APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE 214, ACHARYA JAGDISH BOSE ROAD, CALCUTTA-700017

The dates shown in the crescent brackets are the dates claimed under Section 435, of the Patents Act, 1970.

The 26th May, 1987

- 419/Cal/87. Jagdish Chandra Jagota & Shobha Agarwal. Improvements in or relating to a device for the manufacture of sugar from sugar cane.
- 420/Cal/87. Moskovsky Aviatsionny Institut Imeni Sergo Ordzhonikidze. Data format converter and automatic system employing groups of such converters for checking and testing devices.

The 27th May, 1987

- 421/Cal/87. Zabrzanskie Gwarectwo Weglowe, Kopalnia Wegla Kamiennego "Zabrze-Bielszowice". A jig for treatment of mine raw materials, especially hard coal.
- 422/Cal/87. Unisheff Ventures Limited. Marine biofouling reduction.
- 423/Cal/87. Pasteur Vaccins. A new antigenic fraction obtained by being liberated into the medium of cholera vibrio in culture, process for the preparation of such a fraction and its application to the preparation of an oral cholera vaccine.

The 28th May, 1987

- 424/Cal/87. Autorobot Finland Ky. Procedure in car rectifying work and rectifying means arrangement.
- 425/Cal/87. Rorer International (Overseas) Inc. Stabilization of multivitamin/trace elements.
- 426/Cal/87. Timex Corporation. Bipolar stepping motor rotor with drive pinion and method of manufacture.

The 1st June, 1987

- 427/Cal/87. Euroceltique, S.A. Controlled release bases for pharmaceuticals.
- 428/Cal/87. Hitachi, Ltd. Method of message communication and a system therefor.
- 429/Cal/87. Lanxide Technology Company, LP. Method of making ceramic composite articles with shape replicated surfaces and articles obtained thereby.
- 430/Cal/87. Lanxide Technology Company, LP. Method for producing ceramic abrasive materials.
- 431/Cal/87. (1) Daniel Delgiorno, (2) Russel A. Pellitano, (3) Henry Medina. Muscle testing apparatus.

The 2nd June, 1987

- 432/Cal/87. Voest-Alpine Aktiengesellschaft. Movable device for openpit mining.
- 433/Cal/87. Westinghouse Electric Corporation. Bore mapping and surface time measurement system.
- 434/Cal/87. Westinghouse Electric Corporation. Ultrasonic signal processing system including a flaw gate.
- 435/Cal/87. Jean Bouvet. A mill roll for a liquid extraction system. [Divisional dated 10th September, 1984].
- 436/Cal/87. Spinlab Partners, Ltd. Apparatus and method for measuring a property of a continuous strand of fibrous materials.

The 3rd June, 1987

- 437/Cal/87. Dr. Asit Kumar Roy. Grid projection plate.
- 438/Cal/87. Meiji Seika Kaisha, Ltd. New process for the production of L-2-amino-4-(hydroxymethylphosphinyl)-butyric acid.
- 439/Cal/87. Jac Woon Kim. Fireproof and flame retardant materials and processes of producing same.

APPLICATION FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

The 11th May, 1987

- 337/Mas/87. Dr. PREM BEHARI MATHUR, Mrs. SAROJINI MATHUR AND RAJEEV KUMAR MATHUR. "A Process for the Preparation of a medicine for the treatment of Bronchial Asthma".
- 338/Mas/87. THE CENTRAL SILK TECHNOLOGICAL RESEARCH INSTITUTE. "A Silk Reeling Charkha".
- 339/Mas/87. D. SAMUEL. A Semicontinuous Process for Molluscan Hatchery.
- 340/Mas/87. CABOT CORPORATION. "Regulation of the Flow-Rate of Carbon Black Into a Pelletizer".
- 341/Mas/87. THE BRITISH PETROLEUM COMPANY P.L.C. "Coal Dewatering". (May 10th, 1986, Great Britain).
- 342/Mas/87. ELIZABETH SUGI FRANCIS. An Improved Camp Cot.

The 12th May, 1987

- 343/Mas/87. RAGHBIR SINGH BIR. A Dual Direction Rotary Fluid Pump.
- 344/Mas/87. HUSEYIN ZIYA OZEL. "Extracts of Nerium Species, Methods of Preparations, and Use Therefor".
- 345/Mas/87. DRG (UK) LIMITED. "Processing Paper and Other Webs". (May 14th, 1986, U.K.).
- 346/Mas/87. CABOT CORPORATION. Barium Titanate Coforms.
- 347/Mas/87. T. G. CHANDRAN AND P.V. RADHAKRISHNAN. "A Device for Working a Petrol Engine with LPG. Fuel".
- 348/Mas/87. MITSUI TOATSU CHEMICALS INC. A Process for Producing Chlorination Product of Dianthraquinone-N, N'-Dihydrazine. (Divisional Patent Application No. 435/Mas/84).
- 349/Mas/87. MITSUI TOATSU CHEMICALS INC. A Process for Producing Chlorination Product of Dianthraquinone-N, N'-Dihydrazine.

The 14th May, 1987

- 350/Mas/87. VIJAM JOSHUA. Gyromill Driven by Wind Energy.
- 351/Mas/87. K. A. RANGHACHARY. Alternating Current Load Regulator.
- 352/Mas/87. KATHIRVALE SELVARAJ. Unbreakable Seat or Back Rest for Steel Aluminium Chairs, Settees, Sofas and the Like.
- 353/Mas/87. SWISS ALUMINIUM LIMITED. Process for the Production of Soluble Alkali Silicates.

354/Mas/87. SWISS ALUMINIUM LIMITED. Process for the Production of Aluminium Fluoride Trihydrate.

355/Mas/87. IRECO INCORPORATED. Cast Explosive Composition and Method.

The 15th May, 1987

356/Mas/87. NEW ENGLAND BIOLABS, INC. Method for Cloning Restriction Modification System.

357/Mas/87. KURARAY COMPANY LIMITED. Heat Resistant Organic Synthetic Fibers and Process for Producing the Same.

358/Mas/87. HUGH PATRICK CHRISTIE, Method of and Apparatus for Producing Infusible Bag Holders. (May 15th, 1986, Australia).

359/Mas/87. ALUMINIUM PECHINEY. "Pneumatic Suspension for Vibrocompactors Which are used in Particular for the Production of Carbonaceous Blocks".

ALTERATION OF DATE

160231. Ante dated to 21st July, 1982.
(549/Cat/86)
160265. Ante dated to 29th September, 1980.
(636/Del/84)
160267. Ante dated to 6th May, 1981.
(898/Del/84)
160271. Ante dated to 25th May, 1981.
(117/Del/85)
160275. Ante dated to 21st May, 1981.
(751/Del/84)
160290. Ante dated to 23rd October, 1980.
(446/Del/84)
160312. Ante dated to 10th September, 1981.
(569/Mas/84)
160338. Ante dated to 24th November, 1980.
(294/Del/84)

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CLASS : 40 B

160212

Int. Cl. : B 01 j 11/22, 11/26.

PROCESS FOR THE PREPARATION OF CRYSTALLINE CATALYST COMPOSITE MATERIAL DESIGNATED AS ENCILITE.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH RAJ MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : PAUL RATNASAMY, RAMESH BABA-SAHEB BORADE, SUNEETA BALVANT KULKARNI, & SURYAKANT GANESH HEGDE.

Application for Patent No. 275/Del/1983 filed on 30th April, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A process for the preparation of crystalline catalyst composite material designated encilite having a composition in terms of mole ratio of oxides of formula :

$1.0 \pm 0.2 \text{ M}_2\text{O} : \text{Fe}_2\text{O}_3 : 30-200 \text{ SiO}_2 : \text{ZH}_2\text{O}$ wherein M is a

monovalent cation, and Z is 0-20 comprising reacting an aqueous salt of iron, silicon an alkali metal and sulphuric acid with a tetra alkyl ammonium salt of formula $\text{R}^1\text{R}^2\text{N}^+\text{X}^-$ to form a gel, wherein R^1R^2 are alkyl groups containing 2-4 carbon atoms, R^1 may or may not be same as that of R^2 the values of x and y vary between 1 and 3 and may or may not be same but the sum of the values of x and y equals, 4 and x is bromides or hydroxide ion, heating the resulting gel at 100° to 180°C for 1 to 15 days in an autoclave filtering drying and calcining the resultant solid composite material and further treating the same by ion exchange with a salt of ammonia with a molar ratio of sodium oxide to iron oxide in a range of 0.05 to 0.3 and if desired converting the composite material formed into the catalyst by treating with a binder by known methods.

Compl. specn. 35 pages.

Drg. Nil

CLASS : 172 C₇ & 204

160213

Int. Cl. : D 01 b—1/04 & G 01 g—5/00.

GINNING PERCENTAGE INDICATOR.

Applicant : THE INDIAN COUNCIL OF AGRICULTURAL RESEARCH, KRISHI BHAVAN, DR. RAJENDRA PRASAD ROAD, NEW DELHI-110 001, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : NALLANI CHAKRAVARTHULA VIZIA AND SUBRAMANYAM GANESAM.

Application for Patent No. 372/Del/1983 filed on 3rd June 1983.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

2 Claims

An apparatus for measuring percentage weight of lint in a cotton sample comprising a hydrometer consisting of a long hollow tube connected at its upper end with a pan and a level indicator and the lower end of the said tube is connected with the upper surface of a metallic plate provided on a sealed container which is connected at its lower end with a dead weight, and an indicator panel comprising an acrylic sheet mounted vertically on a table, two level indicating slides capable of being clamped or moved through two well separated slots cut vertically on one side of the said acrylic sheet, a horizontal zero load reference

line which serves as the base line of a graduated lint percentage scale and to which height the hydrometer level is adjusted under the external load condition, and a long pointer suitably linked to the above said two slides such that whenever the two slides are moved to indicate the corresponding levels of the hydrometer with the seed and the lint both derived from a sample of cotton, an external loads on it, the long pointer indicates the percentage of lint present in the said sample of cotton.

Compl. specn. 8 pages.

Drg. 3 sheets

CLASS : 172 C₇ & 204

160214

Int. Cl. : D 01 b—1/04 & G 01 g—5/00.

GINNING PERCENTAGE INDICATOR.

Applicant : THE INDIAN COUNCIL OF AGRICULTURAL RESEARCH, KRISHI BHAVAN, DR. RAJENDRA PRASAD ROAD, NEW DELHI-110 001, INDIA AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : NALLANI CHAKRAVARTHULA VIZIA AND SUBRAMANYAM GANESAN.

Application for Patent No. 373/Del/1983 filed on 3rd June 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

2 Claims

An apparatus for measuring percentage weight of lint in a cotton sample comprising a hydrometer consisting of a long hollow tube connected at its upper end with a pan and a level indicator and the lower end of the said tube is connected with the upper surface of a metallic plate provided on a sealed container which is connected at its lower end with a dead weight, and an indicator panel made up of a rectangular perspex sheet mounted vertically on a table and a vertical rod fixed firmly near one edge of the perspex sheet and provided with a slide with an attached level indicator called seed-slide, and an inclined rod fixed near one of its ends to the seed slide to make an angle of 45° with the vertical and provided with a slide with an attached level indicator called, lint-slide, and a long pointer hinged near the top end of the vertical rod and rested on a narrow stud provided on the lint-slide with its tip pointing towards a graduated circular percentage scale marked on the perspex sheet, the arrangement being such that when the slide is moved on the vertical rod the inclined rod and the pointer move parallel to the plane of the perspex sheet, and to determine the percentage weight of lint of a cotton sample, the seed slide and the lint-slide are moved about their respective rods to indicate the corresponding levels of the hydrometer with seed and lint on its pan and the reading on the percentage scale is read with the aid of the pointer.

Compl. specn. 9 pages.

Drg. 3 sheets

CLASS : 172 C₇ & 204

160215

Int. Cl. : D 01 b—1/04 & G 01 g—5/00.

GINNING PERCENTAGE INDICATOR.

Applicant : THE INDIAN COUNCIL OF AGRICULTURAL RESEARCH, KRISHI BHAVAN, DR. RAJENDRA PRASAD ROAD, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : NALLANI CHAKRAVARTHULA VIZIA AND SUBRAMANYAM GANESAN.

Appropriate office for opposition proceedings (Rule 4, June, 1983.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

2 Claims

An apparatus for measuring percentage weight of lint in a cotton sample comprising a hydrometer and an external scale, and the said hydrometer consists of a long narrow tube having an exponentially increasing rectangular area of cross section tapering into a cylindrical tube near the lower end, and the hollow tube is attached with a pan and a level indicator at its top end and a sealed container and a dead weight at its lower end, the attachment of the sealed container being effected by introducing the said tube axially into it and that of the dead weight being effected by introducing the square shoulder out on the top end of the dead weight into the lower end of the tube, and the said hydrometer is kept in a cylindrical drum containing water and a surfactant, and the above said external scale consists of a vertically movable percentage indicating scale that can be either moved or clamped about a vertical guiding rod placed on a heavy base and the said scale has a vertical line that is divided into percentage units ranging from 20% to 50% and the 50% reading drawn at its lowest end serves as the reference line for marking the other readings on it and to measure the percentage of lint in a cotton sample the seed obtained from the sample is kept on the hydrometer and the scale is moved to coincide its 50% reading with the hydrometer level and the seed is replaced by lint when the hydrometer level indicates the percentage on the scale.

Compl. Specn. 9 pages.

Drsgs. 2 sheets.

CLASS : 104 C. P. 128 G, 136 E.

Int. Cl. : C 08 c 17/08, 17/28.

"PROCESS FOR PRODUCING A FLEXIBLE RUBBER ARTICLE".

Applicant : LRC PRODUCTS LIMITED, A BRITISH COMPANY, OF NORTH CIRCULAR ROAD, LONDON E4 8QA, ENGLAND.

Inventor : MICHAEL HOWARD JAMES, DAVID MICHAEL BRATBY, DAVID CHARLES BLACKLEY, ROGER DUCK, HOWARD IRWIN PODELL and ALBERT GOLDSTEIN.

Application for Patent No. 602/Del/83 filed on 2nd September, 1983.

Convention date on 3-9-82/82.25200/(U.K.).

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

15 Claims

A process for producing a flexible rubber article of the kind such as herein described having a lubricating layer formed from a hydrogel polymer of the kind such as herein described bonded thereto so as to provide a skin-contacting surface of said article, in which surfactant material of the kind such as herein described or a long chain fatty amine of the kind such as herein described has been applied to said skin-contacting surface so as to substantially improve the lubricity of said surface with respect to damp skin which comprises the steps of :

- (a) forming a rubber article on a suitably shaped former,
- (b) applying a solution of a hydrophilic, hydrogel-forming polymer and a curing agent therefor to said rubber article,
- (c) heating the resulting coating of hydrogel polymer at a temperature sufficient to cure said polymer,
- (d) applying a solution of surfactant material or a solution of a long chain fatty amine in order to fix the slip properties of the coating.
- (e) heating the resulting coating of surfactant material or long chain fatty amine in order to fix the slip properties of the coating.

Compl. Specn. 22 pages.

Drg. 1 sheet.

CLASS : 39 L

160217

Int. Cl. : C 01 g-31/00.

"METHOD AND APPARATUS FOR THE RECOVERY OF VANADIUM OXIDE FROM MOLTEN METAL".

Applicant : NEW ZEALAND STEEL LIMITED, A NEW ZEALAND COMPANY, OF GLENBROOK, SOUTH AUCKLAND, NEW ZEALAND.

Inventors : CECIL PETER BATES and NORMAN EDWARD CLARK.

Application for Patent No. 607/Del/1983 filed on 6th September, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

11 Claims

A method of recovering vanadium oxide from molten metal comprising passing oxygen and at least one coolant gas or shroud into and below an upper surface of said molten metal, through at least one elongate lance.

Apparatus for use in the recovery of vanadium oxide from molten metal, comprising elongate lance means which includes an elongate bore extending therethrough; means being provided to allow at least oxygen and a coolant gas or shroud to pass through said lance; characterised in that said lance is so adapted in use that a lower portion thereof is positioned below an upper surface of said molten metal, such that said oxygen and coolant gas or shroud passing through said lance exits therefrom below the upper surface of said molten metal.

Compl. Specn. 21 pages.

Drg. 1 sheet.

CLASS : 24 B

160218

Int. Cl. : F 16 d 65/12.

"DISC BRAKE".

Applicant : THE BENDIX CORPORATION OF EXECUTIVE OFFICES, BENDIX CENTER, SOUTHFIELD, MICHIGAN 48076, U.S.A. A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELWARE.

Inventor : MARSH ANDREW & HEIDMANN KURT RICHARD.

Application for Patent No. 699/Del/83 filed on 11th October, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

66 Claims

Disc brake (10) comprising a rotor (12) mounted for rotation with a member to be braked and presenting a pair of opposed friction faces (14, 16), a pair of friction elements (26, 32) mounted adjacent said friction faces (14, 16) for engagement with the friction faces (14, 16) when a brake application is effected, a caliper assembly (20) operatively connected to said friction elements (26, 32) for forcing the latter into frictional engagement with said friction faces (14, 16), said caliper assembly (20) including a housing (22) a piston (38) slidably mounted in the housing (22), actuating means (54, 84) for urging said piston (38) toward and away from said rotor (12) for causing said friction elements (26, 32) to move into and away from frictional engagement with said friction faces (14, 16), and a flexible boot (93) extending between said housing and said piston (38), one end of said boot (93) terminating in a circumferentially extending bead (98), the other end of said boot (93) terminating in another circumferentially extending bead (96), said housing (22), said piston (38), and said boot (93) being each provided with co-operating means (98, 118, 106, 110) to permit removal of the boot (93) from said housing (22) assembly and said piston (38) without removing said piston

(38) from said housing (22), characterized in that said co-operating means (98, 118, 106, 110) includes a circumferentially extending boot retainer (110) having a first portion (112) engaging said housing and a second portion (124) clamped against said boot (93).

Compl. Specn. 8 pages.

Drg. 1 sheet.

CLASS : 24 B & E.

160219

Int. Cl. : F 16d 65/12.

"DISC BRAKE ASSEMBLY".

Applicant : THE BENDIX CORPORATION OF EXECUTIVE OFFICES, BENDIX CENTER, SOUTHFIELD, MICHIGAN 48076, U.S.A. A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE.

Inventors : KURT RICHARD HEIDMANN & DONALD ARTHUR VORWECK.

Application for patent No. 700/Del/83 filed on 11th October, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

12 Claims

Disc brake assembly comprising a rotor (12) having a pair of friction faces (14, 16), a pair of friction elements (26, 32) disposed for frictional engagement with said friction faces (14, 16) when a brake application is effected, a caliper assembly (20) supported adjacent said rotor (12) and engaging each of said friction elements (26, 32) for forcing the latter into braking engagement with their corresponding friction faces (14, 16) when a brake application is effected, said caliper assembly (20) including a housing (22) defining a bore (36) therewithin, force transmitting means (38, 54) operable to cause said friction elements (26, 32) to engage their corresponding friction faces (14, 16) said bore (36) having an annular wall and transversely extending means (90) defining one end of said bore (36), said force transmitting means (38, 54) extending through said bore from said transversely extending means (90) characterised in that reaction force transmitting means (66, 70, 84) are provided between said housing (22) and said force transmitting means (38, 54) for transferring brake reaction forces transmitted through said force transmitting means (38, 54) to said annular wall at a transverse plane with respect to said housing (22) displaced axially from the plane defined by said transversely extending means (90) to substantially relieve said transversely extending means (90) from said reaction forces, said reaction force transmitting means comprising a collar (70) mounted in said bore (36), means (60) on said force transmitting means (38, 54) for engaging said collar (70) and interconnection means (66, 84) interconnecting the collar (70) and the wall of said bore (36) for transferring force in a radial direction into the wall of the bore (36).

(Complete specification 12 pages)

Drawing 1 sheet)

CLASS : 70 C, & 206 E.

160220

Int. Cl. : H 011 7/00, 15/00.

"METHOD AND APPARATUS FOR MANUFACTURING AN IMPROVED PHOTOVOLTAIC DEVICE".

Applicant : ENERGY CONVERSION DEVICES, INC., A CORPORATION OF DELAWARE, U.S.A., OF 1675 WEST MAPLE ROAD, TROY MICHIGAN 48084, U.S.A.

Inventor : IZU MASATSUGU & CANNELLA VINCENT DAVID.

Application for patent No. 721/Del/83 filed on 29th October, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

10 Claims

A method of manufacturing an improved photovoltaic device having a semiconductor region overlying a substrate and a layer of electrically conductive light transmissive material as hereinbefore defined overlying said semiconductor region, said method comprising applying a coating of an electrolyte solution such as herein defined to said conductive light transmissive material layer in a predetermined area of at least one short circuit current path extending from said substrate through said semiconductor region and passing an electric current through said short circuit current path and said electrolyte solution, to remove by etching said conductive light transmissive material layer from contact with said short circuit current path is eliminated.

(Complete specification 31 pages Drawing 5 sheets)

CLASS : 79 C₈ & 206 E

160221

Int. Cl. : H01J 7/00, 15/00.

METHOD AND APPARATUS FOR MANUFACTURING AN IMPROVED PHOTOVOLTAIC DEVICE.

Applicant : ENERGY CONVERSION DEVICES, INC., A CORPORATION OF DELAWARE, U.S.A., OF 1675 WEST MAPLE ROAD, TROY, MICHIGAN 48064, U.S.A.

Inventor : IZU MASATSUGU & CANNELLA DAVID.

Application for Patent No. 722/Del/83 filed on 29th October, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

A method of manufacturing an improved photovoltaic device having a semiconductor region overlying a substrate and a layer of electrically conductive light transmissive material such as hereinbefore defined overlying said semiconductor region, said method comprising impressing a bias voltage across said substrate and said semiconductor region of said device to pass a sufficiently large electric current through at least one latent short circuit current path to establish an existing short circuit current path in said semiconductor region extending through said semiconductor region from said substrate to said electrically conductive light transmissive material layer, applying a coating of an electrolyte solution such as herein defined to said electrically conductive light transmissive material layer in the area of a said existing short circuit current path and passing an electric current along said existing short circuit current path through said electrolyte, said light transmissive material layer and said substrate thereby removing by etching said electrically conductive light transmissive material layer from contact with said existing short circuit current path whereby the potential detrimental effect of the latent short circuit current path is eliminated.

Compl. specn. 35 pages. Drg. 6 sheets

CLASS : 69-A

160222

Int. Cl. : H01h 73/00.

GAS CIRCUIT INTERRUPTERS.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventor : 1. BEN JOSEPH DE CALVINO Y TEJEIRO.

Application No. 406/Cal/84 filed June 14, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

A gas circuit interrupter of the puffer type comprising a sealed housing which contains an insulating gas, an arc-extinguishing unit that includes a stationary contact and an elongated movable contact, and operating means which actuates the arc-extinguishing unit and places the contacts in closed-circuit and open-circuit relationships, a puffer assembly comprising a hollow piston component disposed in fixed spaced-apart position relative to said stationary contact and enclosing a portion of said elongated movable contact, said piston component having head means which supportingly accommodates the elongated movable contact and a puffer cylinder secured to and movable with the movable contact and structured and disposed to move over and along the piston component when the movable contact and structured and disposed to move over and along the piston component when the movable contact is actuated, said puffer cylinder and piston component defining a puffer chamber for compressing insulating gas as the movable contact is displaced from contact-closed position and then directing the compressed gas into the arc bridging the parting contacts, said puffer cylinder having integral means for relieving the back-pressure produced by the sudden expansion of the puffer chamber during the return of the movable electrode and puffer cylinder to their contact-closed positions, said pressure-relief means comprising at least one aperture in the puffer cylinder that is so oriented that the aperture is obstructed and closed by the stationary piston during the major portion of the gas-compressing movement of the cylinder but is located beyond the piston and is thus automatically opened during the chamber-expansion movement of the cylinder.

Compl. specn. 16 pages.

Drg. 4 sheets

CLASS : 98-E

160223

Int. Cl. : B21d 53/02; F28d 11/00.

METHOD OF CONSTRUCTING A CYLINDRICAL ROTOR ASSEMBLY FOR A ROTARY REGENERATIVE HEAT EXCHANGER.

Applicant : THE AIR PREHEATER COMPANY, INC., OF ANDOVER ROAD, WELLSVILLE, NEW YORK, UNITED STATES OF AMERICA.

Inventors : 1. RODERICK JAY BAKER, 2. PETER HALLAM, 3. JAMES ALAN GROVES, 4. JOHN EDWARD IRVING.

Application No. 431/Cal/84 filed June 20, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A method of constructing a cylindrical rotor assembly for a rotary regenerative heat exchanger of the type wherein a mass of heat exchange material is housed in a rotor compartment surrounding and mounted to a vertically-disposed rotatable central rotor post, said rotor compartment formed of a plurality of sector-shaped rotor subcompartments disposed about and mounted to said central rotor post, comprising the steps of :

- detachably mounting to said central rotor post a sector-shaped upper support lug at the top thereof and a sector-shaped lower support lug at the bottom thereof, said upper and lower support lugs each having a plurality of paired radially directed slots formed therein;
- inserting an axially elongated, radially extending diaphragm plate into each of the paired radially directed slots of said upper and lower support lugs and tack welding each radially extending diaphragm plate in position;
- positioning a plurality of stay plates to extend transversely between adjacent radially extending diaphragm plates and tack welding each stay plate in position;

- (d) final welding each radially extending diaphragm plate to said upper and lower support lugs thereby forming a sector-shaped rotor sub-compartment;
- (e) with the sector-shaped rotor subcompartment still mounted to said central rotor post, drilling attachment pin holes in said upper support lugs of the sector-shaped rotor subcompartment;
- (f) final welding said stay plates to and between said radially extending diaphragm plates to complete the assembly of the sector-shaped rotor subcompartment;
- (g) repeating steps (a) and (f) as required to provide said plurality of sector-shaped rotor subcompartments to form said rotor compartment, and
- (h) shipping said central rotor post and said plurality of sector-shaped rotor subcompartments in disassembled state for subsequent field assembly to form said cylindrical rotor assembly.

Compl. specn. 13 pages.

Drg. 3 sheets

CLASS : 32-F₁

160224

Int. Cl. C-01b 9/100.

A CONTINUOUS PROCESS FOR FLUORINATING HALOKANES CONTAINING AT LEAST ONE NON-FLUORINE HALOGEN ATOM.

Applicant : E. I. DU PONT DE NEMOURS AND COMPANY, AT WILMINGTON, DELAWARE, UNITED STATES OF AMERICA.

Inventor : FREDERICK WILLIAM MADER.

Application No. 432/Cal/84 filed June 20, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A continuous process for fluorinating haloalkanes comprising :

continuously fluorinating antimony pentachloride to antimony pentachloride and hydrogen fluoride to a reaction zone at 60 to 140°C while continuously removing by-product hydrogen chloride gas from the antimony chlorofluoride thus produced :

continuously transferring the separated antimony chlorofluoride to a separate reaction zone while supplying a haloalkane containing at least one nonfluorine halogen atom to said separate reaction zone and at 60 to 150°C reacting the antimony chlorofluoride with said haloalkane thereby replacing a portion of the nonfluorine halogen in said haloalkane with fluorine of the antimony chlorofluoride and recovering the chlorofluoroalkane reaction products produced.

Compl. specn. 21 pages.

Drg. 1 sheet

CLASS : 154-D.

160225

Int. Cl. B 41 f 31.00.

INKING MEANS.

Applicant : VEB KOMBINAT POLYGRAPH "WERNER LAMBERZ" LEIPZIG OF 7050 LEIPZIG, ZWEINAUNDRORFER STR. 59, GERMAN REPUBLIC OF DEMOCRATIC REPUBLIC.

Inventor : 1. KLAUS ALBERT.

Application No. : 508/Cal/84 filed July 13, 1984.

Convention dated 22nd December, 1983 (83 34229) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

Inking means comprising an ink ductor roller, a ductor blade settable relative to the roller for zonal control of ink layer thickness thereon, and setting means for determining the blade setting, the setting means comprising a plurality of spaced apart eccentric discs mounted on a stationary shaft to be rotatable thereto about an axis substantially parallel to the roller and each having an inwardly stepped portion, a respective annular member which is mounted on the inwardly stepped portion of each disc to be rotatable relative thereto and securable against such relative rotation and which is engageable with the blade, spring means axially biasing each disc against abutment means to resist free rotation of the disc, and a respective setting lever connected to each annular member.

Compl. specn. 10 pages.

Drg. 2 sheets

CLASS : 40-F.

160226

Int. Cl. B.0Jj 1/00.

A MIST ELIMINATOR FOR ELIMINATING DROPLETS FROM A GASEOUS FLOW.

Applicant & Inventor : PROFESSOR DR.-ING. DIETER WURZ, OF HAID UND NEU STR. 8, 7500 KARLSRUHE FEDERAL REPUBLIC OF GERMANY.

Application No. : 564/Cal/84 filed August 13, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

A mist eliminator for eliminating droplets from a gaseous flow, in which flow passageways including constructions and deflecting section are formed by means of profile elements on the walls of which the droplets are eliminated and which are oriented such that the eliminated liquid may flow along said walls towards the inlet portion of the flow passageways under the action of gravity, characterized in that a respective droplet acceleration section (II) is provided between adjacent profile elements (I) upstream of the first deflecting section (III), said acceleration section being dimensioned so that at least small droplets are accelerated at the inlet to the deflecting portion to a velocity which differs only slightly from the gas flow velocity.

Compl. specn. 24 pages.

Drg. 5 sheets

CLASS : 55-F.

160227

Int. Cl. C 12 k 3/00 ; C 12 d 5/06.

PROCESS FOR THE PREPARATION OF A NEW INOCULUM FOR ANAEROBIC FERMENTATION OF COENZYME B₁₂.

Applicant : RICHTER GEDEON VEGYESZETI GYAR R.T. OF GYOMROI UT BUDAPEST, X., HUNGARY.

Inventors : 1. LASZLO SZEMLER, 2. DR. EVA UDVARDY NAGY CSEREPECHANY.

Application No. 598/Cal/84 filed August 28, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

Process for the preparation of a new inoculum having a pH of 5.4 to 5.8 and a biogas production of 0.5 to 0.8 lit. of biogas/day lit. of fermentation broth, suitable for batch-wise, semicontinuous or continuous fermentation of coenzyme B₁₂ (cobamide coenzyme) under septic conditions, containing a new anaerobic, mesophilic, methane-producing mixed micro-population containing the strains deposited in the Hungarian National Collection in Medical Bacteria (OKI) National Institute of Hygiene under Nos. 00076, 00079

and 00272 [the strains following the order of deposition numbers : *Corynebacterium* sp. (24 A 1), *porpionibacterium* sp. 239 A₁/(6) and *Methanococcus* sp. (MC-017)] which comprises :

admixing 75 to 85 volumes/volume % of a broth having the same composition as the conventional broths used for anaerobic, mesophilic, septic fermentation of coenzyme B₁₂ except that it contains less nutrients of the kind present in the conventional broth and in lower concentration such as herein described with 25 to 15 volumes/volume % of anaerobic, digested sewage sludge,

fermenting the mixture under anaerobic, mesophilic, septic conditions for about seven days, while adding 0.3 to 0.5 volumes/volume % methanol daily,

adding the fermented broth obtained (1st generation) or a portion thereof, to a multiple—preferably four to six-fold—volume of a broth having the same nutrient composition as that of the starting broth, and continuing fermentation under identical conditions until the pH falls to 5 to 5.5,

removing 5 to 15 volume percent of the fermented broth obtained (2nd generation) daily and replacing same with an equal volume of a broth rich in precursor(s) but containing the same nutrients, and

if desired, continuing fermentation for several additional days to provide an inoculum containing an anaerobic, mesophilic, methane-producing new mixed micropopulation, which is suitable for use in the production of coenzyme B₁₂.

Compl. Specn. 25 pages.

Drg. Nil.

CLASS : 85-J & R.

160228.

Int. Cl. F 27 b 9/12.

APPARATUS FOR PREHEATING LUMPY ORE OR THE LIKE.

Applicant : FRIED KRUPP GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, OF ALTENDORFER STRASSE 103, D-4300 ESSEN 1, FEDERAL REPUBLIC OF GERMANY.

Inventor : 1. WILHELM JANSSEN, 2. KLAUS ULRICH.

Application No. 725/Cal/84 filed October 16, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

Apparatus for preheating lumpy ore or the like comprising a shaft provided with vertical walls and through which hot gases flow from below in an upward direction, at least one inlet nipple provided thereabove, a discharge collector provided underneath thereof and between the shaft and the large inlet cross section of the discharge collector, one or more apertures serving as gas inlets, wherein the discharge collector (17) is provided with vertical side walls, a central downwardly flaring insert and a discharge device at its lower end.

Compl. Specn. 13 pages.

Drg. 3 sheets.

CLASS : 69-A, E & F.

160229

Int. Cl. : H 01 h 3/00, 35/00.

AUTOPNEUMATIC GAS-BLAST CIRCUIT BREAKER.

Applicant : LICENTIA PATENT-VERWALTUNGSGMBH THEODOR-STERN-KAI 1 D-6000 FRANKFURT AM MAIN 70, FEDERAL REPUBLIC OF GERMANY.

Inventor : DIPLOM-INGENIEUR DIEARICH HOFFMANN.

Application No. 804/Cal/84 filed November 23, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

8 Claims

Auto pneumatic gas-blast circuit breaker, by which the necessary quench-gas-flow for quenching of the electric arc is produced by connecting from the centre of a compression-unit consisting of a cylinder and piston, thus characterised, that a little before the end-on-position of the moving switch or circuit-breaker, at least one of the opening (22) in the pump-barrel (6) of the cylinder is released through which the gas in the compression-chamber (21) flows in and that the cross-section of the opening (22) is the same as or greater than the effective cross-section of the nozzle.

Compl. Specn. 10 pages.

Drg. 2 sheets.

CLASS : 40-F.

160230

Int. Cl. : B 01 j 1/00.

APPARATUS FOR PRODUCING IGNITABLE SOLIDS-GAS SUSPENSIONS.

Applicant : NORDDEUTSCHE AFFINERIE AG, OF AISTERASSE 2, D-2000 HAMBURG 36, FEDERAL REPUBLIC OF GERMANY.

Inventor : 1. ADALBERT BARTSCH, 2. GEORG GOSPOS, 3. LARS KERSTEN, 4. ARNO WOLFGANG BARTSCH.

Application No. 882/Cal/84 filed December 20, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

9 Claims

Apparatus for producing ignitable solids-gas suspensions comprising a feeder for vertically feeding the solids-primary gas suspension, a secondary gas passage concentrically surrounding said feeder, and a stage for mixing both streams, characterized in that the feeder for the solids-primary gas suspension consists of a pressure relief vessel which is provided with a tangentially extending supply line (1) for supplying the solids-primary gas suspension, which supply line opens into said vessel in a substantially horizontal direction, and in that the pressure relief vessel (2) is succeeded by two series-connected mixing stages (I, II), which consist of venturi diffuser (5, 6, 7) in the first mixing stage (I) and the second mixing stage (II) contains a flame-sustaining annular gas burner (G) having fuel gas and oxygen nozzles (14, 14a) arranged in alternation and surrounding the diffuser outlet, which is provided with a cooling chamber (18).

Compl. Specn. 26 pages.

Drg. 2 sheets.

CLASS : 9-F; 85-Q; 108-C

160231

Int. Cl. : C 21 c 5/30, 5/42, 39/14; F 27 b 7/00.

A HORIZONTAL OR A NON-STEEPLY INCLINED ROTARY FURNACE FOR SMELTING REDUCTION OR REFINING OF METAL ALLOYS.

Applicant : NIPPON KOKAN KABUSHIKI KAISHA, OF 1-2 MARUNOUCHI-1-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors : 1. TSUNEO MIYASHITA, 2. TSUTOMU FUKUSHIMA, 3. KIYOSHI KAWASAKI, 4. SADAYUKI SASAKI.

Application No. 549/Cal/86 filed July 21, 1986.

Division of Application No. 838/Cal/82 dated 21st July, 1982.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

7 Claims

A horizontal or a non-steeply inclined rotary furnace for smelting, reduction or refining of metal alloys, said furnace comprising :

a furnace shell having inner and outer walls;

a refractory lining disposed on said inner wall, said lining defining a furnace inner surface;

a plurality of openings arranged in spaced relation on the circumference of the furnace outer wall, said openings extending through said furnace shell and said refractory lining, thereby defining a corresponding plurality of openings on the furnace inner surface;

said furnace defining an upper zone and lower zone during rotation, said upper zone being a free-space zone devoid of material at all times, and said lower zone accommodating metal, slag, reducing agents and other materials; and

each of said openings communicating with a source of fuel or fuel-oxygen mixture during the melting period in which the ores and other materials in the furnace are melted for yielding metal and slag, said fuel or fuel mix being introduced into said lower zone, thereby promoting the smelting of the raw materials.

Compl. Specn. 41 pages.

Drgs. 15 sheets

CLASS : 148 H, N, G, M. 168 C.

160232

Int. Cl. : H 04 n 3/00, 9/00 and G 03 f 3/08.

A DRUM SCANNER-IMAGER.

Applicant : NATIONAL REMOTE SENSING AGENCY, 4, BARDAR PATEL ROAD, SECUNDERABAD-500 003, ANDHRA PRADESH, INDIA.

Inventor : 1. KESHAVAMURTHY RAMACHANDRA RAO, 2. BULUSH LAKSHMANA DEEKSHATULU, 3. KUNDA MOHANA MURALIDHARA RAO, 4. YELLAPPA SAMBAMURTHY, 5. OM PRAKASH BAJPAI.

Application No. 91/Mas/83, filed April 30th, 1983.

Complete Specification left on 30th July, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

2 Claims

A drum scanner imager comprising a light source disposed adjacent a scanning drum for mounting the hard copy/transparency input picture; an imaging drum provided with a light trap cover for mounting the unexposed photopaper/film, said imaging drum being coupled to the scanning drum; an optical system for sensing the reflected/transmitter light signal from the input picture and separating the same into red blue green and black and white channels; photomultipliers for receiving the colour separated output of the optical system and feeding the same into an electronic processing system for carrying out operations such as colour and density correction and contrast enhancement; and a glow modulator for reconverting the processed output of the electronic processing system into light signals for exposing the photopaper/film on the imaging drum.

Provisional Specification Pages.6.

Drgs. 2 Sheets

Compl. Specn. 7 pages.

CLASS : 68 D E

160233

Int. Cl. : H 02 h 9/00.

AN OVERVOLTAGE SUPPRESSOR FOR SUPPRESSING THE VOLTAGE OVERSHOOT IN THE OUTPUT OF AN A.C. POWER SOURCE, RESULTING FROM SWITCHING OFF OF THE LOAD,

2—137 GI/87

Applicant : KIRLOSKAR ELECTRIC COMPANY LTD. MALLESWARAN WEST, BANGALORE 560 055, KARNATAKA, INDIA. A COMPANY DULY ORGANISED AND EXISTING UNDER THE LAWS OF THE UNION OF INDIA.

Inventors : R. ALAGIRISWAMY and C.R. VIDYASHANKAR.

Application No. 92/Mas/83 filed 30 April, 1983.

Complete Specification left on 30th July 1984.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

5 Claims

An overvoltage suppressor for suppressing the voltage overshoot, in the output of an a.c. power source, resulting from switching off of the load comprising a sensing transformer for connection to a power source, rectifying means connected to the transformer for converting the a.c. sinusoidal wave form into rectified full wave form; a comparator, the inverting input of which receives the rectified output, the non-inverting input of which is fed with a preset voltage; a pulse generator; and a transient suppressor-triac circuit, the said transient suppressor having a rated steady state operating voltage substantially less than the preset voltage, whereby it is only when the sensed rectified voltage overshoots the preset voltage, the output of the comparator changes its state from high to low level to drive the pulse generator "on" and thus provide a negative voltage to the gate of the triac and render the said triac conducting and thereby render the transient suppressor also conducting.

Prov. specn. 5 pages.

Drsg. 1 sheet

Compl. specn. 6 pages.

Drsg. Nil

CLASS : 65A

160234

Int. Cl. : H 03 k 5/00.

A DEVICE FOR GENERATING PHASE DISPLACED WAVEFORMS FOR SWITCHING TWO SETS OF SEMICONDUCTOR SWITCHES OF A STATIC INVERTER GENERATING A STEPPED SINE WAVEFORM.

Applicant : KIRLOSKAR ELECTRIC COMPANY LTD., MALLESWARAM WEST, BANGALORE-560 055, KARNATAKA, INDIA.

Inventors : (1) R. ALAGIRISWAMY AND (2) C. R. VIDYASHANKAR.

Application No. 93/Mas/83 filed April 30, 1983.

Complete Specification left on 30th July, 1984.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

2 Claims

A device for generating phase displaced waveforms for switching two sets of semiconductor switches of a static inverter generating a stepped sine waveform comprising

means for generating a first set of N pulse trains (N being a positive integer);

means for generating a ramp waveform from the first pulse of the first set of pulse trains;

voltage comparator means for comparing the ramp waveform with a dc voltage obtained as a feedback from the said inverter;

a phase comparator, included in PLL (phase locked loop) integrated circuit, the output of the phase comparator being filtered by a high frequency filter and fed to the VCO (voltage controlled oscillator) in the said PLL, the output frequency of which varies in accordance with the output of the said filter

a divide by N circuit for dividing the frequency of the output of the VCO by N, the first pulse of the second set of pulse trains output of the said divide by N circuit being fed back to the said phase comparator, the reference of which is the output of the said voltage comparator means, whereby the said second set of pulse trains is always phase locked with the said first set of pulse trains, the phase difference between the second set of pulse trains output of the divide by N circuit and the first set of pulse trains being variable by the said PLL circuit.

Provisional specn. 5 pages.

Drg. 2 sheets

Complete specn. 6 pages.

Drg. Nil

CLASS : 32 E

160235

Int. Cl. : C 08 g 20/40.

A PROCESS FOR THE PREPARATION OF N-ETHOXY METHYLATED NYLON-6.

Applicants : KANNIAH NAIDU GOPALA KRISHNA MOORTHY, RESEARCH & DEVELOPMENT CENTRE, SHRI RAM FIBRES LIMITED, MANALI, MADRAS-600 068, TAMIL NADU, INDIA, (2) HARIHARAN SANKARASUBRAMANIAN, RESEARCH & DEVELOPMENT CENTRE, SHRI RAM FIBRES LIMITED, MANALI, MADRAS-600 068, TAMIL NADU, INDIA, (3) SHRI RAM FIBRES LIMITED, HEMKUNT HOUSE, 6, RAJENDRA PLACE, PUSHA ROAD, NEW DELHI-110 008, INDIA.

Inventors : (1) KANNIAH NAIDU GOPALA KRISHNA MOORTHY AND (2) HARIHARAN SANKARASUBRAMANIAN.

Application No. 185/Mas/83 filed September 6, 1983.

Complete specification left on 6th December, 1984.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

6 Claims

A process for the preparation of N-ethoxy methylated nylon-6 comprising the steps of converting nylon-6 polymer into N-methylol polyamide-6 by reaction between paraformaldehyde in ethanol and the nylon-6 polymer in formic acid at ambient temperature; further reacting the resulting N-methylol polyamide with excess alcohol to form N-ethoxy methylated nylon-6; and thereafter isolating the said N-ethoxy methylated nylon-6 using aqueous ammonia solution.

Provisional specn. 4 pages.

Drg. Nil

Compl. specn. 7 pages.

Drg. Nil.

CLASS : 40 C & 172 F

160236

Int. Cl. : B 01 f 3/08 & D 06 m 15/16.

A PROCESS FOR THE PREPARATION OF NON-FUMING EMULSIONS FOR PROVIDING SPIN FINISHES TO YARN USED IN NYLON TYRE CORD.

Applicants : (1) KANNIAH NAIDU GOPALA KRISHNA MOORTHY, RESEARCH & DEVELOPMENT CENTRE, SHRI RAM FIBRES LIMITED, MANALI, MADRAS-600 068, TAMIL NADU, INDIA, (2) PUSHPENDAR KUMAR KAUSHIK, RESEARCH & DEVELOPMENT CENTRE, SHRI RAM FIBRES LIMITED, MANALI, MADRAS-600 068, TAMIL NADU, INDIA, (3) HARIHARAN SANKARASUBRAMANIAN, RESEARCH & DEVELOPMENT CENTRE, SHRI RAM FIBRES LIMITED, MANALI, MADRAS-600 068, TAMIL NADU, INDIA, AND (4) SHRI RAM FIBRES LIMITED, HAVING ITS REGISTERED OFFICE AT HEMKUNT HOUSE, 6, RAJENDRA PLACE, PUSHA ROAD, NEW DELHI-110008, INDIA.

Inventors : (1) KANNIAH NAIDU GOPALA KRISHNA MOORTHY, (2) PUSHPENDAR KUMAR KAUSHIK AND (3) HARIHARAN SANKARASUBRAMANIAN.

Application No. 186/Mas/83 filed September 6, 1983.

Complete specification left on 6th December, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

3 Claims

A process for the preparation of non-fuming emulsions for providing spin finishes to yarn used in nylon tyre cord comprising the steps of expelling, by vacuum distillation, thermally unstable, low volatile toxic impurities from (a) condensate of polyethylene glycol and castor oil, (b) monoglyceride rape seed oil, (c) polyoxyethylene higher alcohol ether (d) polyoxyethylene oleyl ether oils, (e) higher alcohol fatty acid ester and, (f) white spindle oils; preparing a mixture of the said purified (a) condensate of polyethylene glycol and castor oil (b) monoglyceride rape seed oil (c) polyoxyethylene higher alcohol ether (d) polyoxyethylene oleyl ether oils and raising the temperature thereof substantially to 70°C under constant agitation; adding thereto a mixture of the said purified (e) higher alcohol fatty acid ester and (f) white spindle oils at substantially the same temperature, the temperature of the resulting mixture being gradually raised further substantially to 97°C±2°C under stirring; adding hot demineralised water at substantially 97°C±2°C dropwise thereto until formation of a bluish white transparent emulsion; and diluting the said emulsion with hot water at 85°C–90°C under agitation.

Provisional specification 7 pages.

Drg. Nil

Compl. specn. 9 pages.

Drg. Nil

CLASS : 199

160237

Int. Cl. : E 03 b 3/00.

A DEVICE FOR COLLECTING RAIN WATER FROM TERRACES OF BUILDINGS.

Applicant : NATESA THIYAGARAJAN BHARDWAJ, 44(28) CUTCHERY ROAD, MYLOPRE, MADRAS 600 004, TAMIL NADU, INDIA, INDIAN NATIONAL.

Inventor : NATESA THIYAGARAJAN BHARDWAJ.

Application No. 190/Mas/83 filed September 9, 1983

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

7 Claims

A device for collecting rain water from terraces of buildings, comprising a main drain the first end thereof communicating with the terrace of a building, while the second end thereof is disposed at or near ground level; a spring-loaded water collector box provided with a vent pivotably mounted at or near ground level, the pivot arm of the collector box being provided with a cam which normally leaves the second end of the main drain open; a duct communicating with the main drain and the collector box for draining away the initial flow of unclean rain water from the terrace into the collector box, such that as the collector box gets gradually filled up with water over an interval of time when clean water commences to flow from the terrace, the collector box tilts downwardly under the weight of its water content to move the cam against the second end of the main drain and close the second end; an auxiliary drain communicating with the main drain and with a well or storage tank, the junction of the two drain being provided with a trap which does not allow the water descending in the main drain to enter into the auxiliary drain, but which permits clean water rising in the main drain, after closure of the second end, to enter it and thus reach the well or storage tank the arrangement being such that the collector box all the while remains in its tilted position until the rainfall ceases and water in the collector box is sufficiently drained away through the vent to cause the collector box to revert to its normal position under spring resilience, thus opening the second end of the drain.

Compl. specn. 9 pages.

Drg. 1 sheet

CLASS : 104 G, 192

160238

10 Claims

Int. Cl. : A 01 g—13/02, 23/10.

A RAIN SHADE FOR USE ON A LATEX YIELDING TREE.

Applicant : PHILIP ABRAHAM, ANCHANICKEL HOUSE, CHAMAPATHAL P.O. VAZHOOOR, KOTTAYAM DISTRICT KERALA, INDIA, INDIAN NATIONAL.

Application No. 213/Mas/83 filed 24th October 1983.

Complete specification left 30, November, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

10 Claims

A rain shade, for use on a latex yielding tree having one or more rubber tapping zones with an equal number of latex collection receptacles comprising a skirt member for closely encircling the trunk of the tree, partly or fully; means for firmly positioning the skirt member on the trunk to provide an awning for the periphery of the trunk, just above the tapping zone thereof, characterised in that the skirt member has the desired stiffness and extends downwardly around the trunk of the tree and away from it, unbrellawise, to overhang the latex collection receptacle or receptacles, said, skirt member having a hem for being fixed to the trunk of the tree by fastening means.

Provisional specn. 5 pages.

Drg. 1 sheet

Compl. specn. 9 pages.

CLASS : 64 B-3 & 66 D-4

160239

Int. Cl. : F 21 v 21/00.

AN IMPROVED BAYONET TYPE ELECTRIC LAMP HOLDER.

Applicant & Inventor : KUTTAPPAN VIJAYACHANDRAN, INDUSTRIES RESEARCH & SERVICES, 47/1208, DESABHIMANI ROAD, COCHIN-682017, KERALA, INDIA.

Application No. 217/Mas/83 filed 1st November, 1983.

Complete specification left on 22nd October, 1984.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

4 Claims

An improved bayonet type electric lamp holder for use with a lamp having a conventional bayonet type cap comprising a holder body and a pair of spring loaded contact means or plungers mounted therein characterized by at least a pair of spring mechanisms as herein described are provided on the holder body, the spring mechanism being so adapted that the lamp can be pressed into the lamp holder.

Provisional specn. 9 pages.

Drg. 2 sheets

Compl. specn. 10 pages.

Drg. Nil

CLASS : 172 D 4

160240

Int. Cl. : B 65 h 75/02.

DEVICE FOR STORAGE OF EMPTY BOBBINS IN A SPINNING FRAME.

Applicant : KABUSHIKI KAISHA TOYODA JIDOSHOKKI SEISAKUSHO, OF 1 TOYODA-CHO, 2-CHOME, CITY OF KARIYA, AICHI PREFECTURE, JAPAN, A COMPANY ORGANISED AND EXISTING UNDER THE LAWS OF JAPAN.

Inventors : TSUTOMU MIYAZAKI, TATEMI FUKUDA, KAZUYA YOSHIMINE.

Application No. 55/Mas/84 filed January 31, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

A device for the storage of empty bobbin in a spinning frame comprising conveyor means mounted above the spinning frame and adapted for restoration to the spinning frame, of empty bobbins discharged from a winder associated with the spinning frame, and a passage for guiding the thus returned empty bobbins to empty-bobbin supply sections associated with automatic bobbin change means annexed to the spinning frame characterized in that, half way in said passage, there are provided a branch point for branching said passage towards left and right sides of the spinning frame for providing two guide passage sections, and means associated with said branch point for selectively distributing the empty bobbins into one or the other of said guide passage sections, and in that, half way in the left and right guide passage sections, and below said branch point, there are provided storage sections for storing said empty bobbins in horizontal position.

Compl. specn. 14 pages.

Drg. 4 sheets

CLASS : 190 D

160241

Int. Cl. : F 03 d 3/02.

AN IMPROVED WINDMILL.

Applicant & Inventor : THIRUMALAI ANANDAMPILLAI VIJAYAN, C/O T. S. RAMANATHAN, POYAPAKKAM VILLAGE, VIA VILLUPURAM, TAMIL NADU-605 602, INDIA.

Application No. 130/Mas/84 filed February 27, 1984.

Complete specification left on 26th February, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

4 Claims

An improved windmill comprising a circular wind turbine chamber mounted rotatably at the top of a vertical tower, the said wind turbine chamber having an air inlet at its front surface, the said air inlet being divided by many vertical partitions, the said partitions of the air inlet leading into as many streamlined distributing channels, the said distributing channels being spread around and ending in vents which open around an independently rotatable blade assembly enclosed in the said wind turbine chamber, the said wind turbine chamber having on its upper surface one or more elevated fins, the said fins directing the air inlet of the said wind turbine chamber into the wind, the lower surface of the said wind turbine chamber having any known rotatable mechanism to facilitate rotation on the top of the said tower as the wind changes in direction, the said tower being fixed firmly at its lower end to the ground firmly and having at its centre a vertically disposed rotatable drive shaft, the said shaft being held rotatable freely in more than one friction minimising supports in the said tower such that the upper end of the drive shaft projects higher than the top of the said tower, the said drive shaft having at its lower end any known energy transmission mechanism to run a generator, the upper projecting end of the said drive shaft having a firmly fixed hub, the said hub having more than one radial rods on its outside, the said radial rods ending in a circular frame, the said circular frame having on its outside multitudines of blades, the said blades being fixed firmly on the said circular frame in any known manner such that when the blades with the circular frame rotating independently in the said wind turbine chamber are moved by air also rotates the drive shaft.

Provisional specn. 2 pages.

Drg. Nil

Compl. specn. 6 pages.

CLASS : 37 B

160242

Int. Cl. : B 01 d 57/00, B 04 b 5/00.

APPARATUS FOR COLLECTING AND SEPARATING IN A MECHANICAL FASHION ONE OR SEVERAL SOLID AND/OR LIQUID INSOLUBLE MATERIALS IN A LIQUID BODY.

Applicant & Inventor : ULF HAMMARSTEDT, TRAKTORSGRÄND 6, 393 64 KALMAR, SWEDEN; AND KENNETH EK, PL. 6148 HAGBY, 383 00 LJUNGBY-HOLM, SWEDEN; BOTH SWEDISH CITIZENS.

Application No. 27/Mas/84 filed 17th January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

11 Claims

Apparatus for mechanically collecting and separating solids and/or insoluble liquids from a liquid body, comprising :

a collector wheel which is supported for rotation about an axis, said collector wheel comprising a sheet of mesh material having openings therein, said sheet having a leading edge, a trailing edge and opposed side edges, said sheet being spaced from said axis by distances which decrease progressively from said leading edge to said trailing edge so that the axis is closer to the trailing edge than the leading edge.

means for rotating said collector wheel about said axis in a direction toward said leading edge;

opposed end panels located at the side edges of said sheet;

a receptacle located on said axis and having an upwardly facing opening, said receptacle having an exterior surface which is wiped by said trailing edge of the sheet during rotation of the collector wheel, rotating means located in the receptacle for discharging material which is collected therein.

Compl. specn. 13 pages.

Drg. 4 sheets

CLASS : 74, 119 B

160243

Int. Cl. : D 03 d 3/00, 41/00.

FAN SHAPED FABRICS AND A METHOD AND AN APPARATUS FOR MAKING THE SAME.

Applicant : RINEX EXPORTS (INDIA) PRIVATE LIMITED AN INDIAN COMPANY, OF 12 KODAMBAKKAM HIGH ROAD, MADRAS 600 034, TAMIL NADU, INDIA.

Inventor : D. B. FROHLICH.

Application No. 93/Mas/84 filed 10th February, 1984.

Complete specification left on 10th May 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

6 Claims

A fan shaped handloom fabric wherein the weft fans out, and wherein one selvage is longer than the other and the number of warp threads (ends) per unit area of the fabric is minimum at the shorter selvage area and maximum at the longer selvage area, the increase being gradual.

Provisional specn. 5 pages.

Drg. 3 sheets

Compl. specn. 12 pages.

Drg. 3 sheets

CLASS : 107 G, 133 A

160244

Int. Cl. : H 02 h 5/00.

A PROTECTIVE DEVICE FOR DEACTIVATING A PRIME MOVER COUPLED TO A PUMP IN PREDETERMINED CONDITIONS.

Applicant & Inventor : RAMAR CHETTIAR SENNAIVAN CHETTIAR PONNUSWAMY CHETTIAR AYYATHURAI, SILLAMARATHUPATTI, MADURAI DISTRICT, TAMIL NADU, INDIA, INDIAN NATIONAL.

Application No. 111/Mas/84 filed 20th February, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

5 Claims

A protective device for deactivating a prime mover coupled to a pump in predetermined conditions comprising a container having an inlet for receiving a portion of the flow of the liquid from the discharge end of the pump and an outlet for gravity flow of the liquid therefrom, the outlet being provided with a cock for regulating the outflow of the liquid; an actuator from which the container is directly or indirectly suspended, the actuator being connected to the prime mover controls, whereby as long as the pump is discharging liquid and a portion of the flow continuously passes through the container from its inlet to its outlet, the weight of the container exerted on the actuator maintains the actuator in its deactivated state, but any cessation of discharge of liquid from the pump or reduction of such discharge to a predetermined rate, drains the liquid in the container to reduce the weight of the container, thus activating the actuator and shutting off the prime mover.

Compl. specn. 10 pages.

Drg. 1 sheet

CLASS : 107 F [XLVI (2)]

160245.

Int. Cl. : F 02 p 15/00.

AN IGNITION CONTROL DEVICE FOR AN INTERNAL COMBUSTION ENGINE.

Applicant and Inventor : LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, OF GREAT KINGS STREET, BIRMINGHAM B 19 2XF ENGLAND, A BRITISH COMPANY.

Application No. 235/Mas/84, filed 4th April, 1984.

Convention Application No. 8309134, GREAT BRITAIN, 5th APRIL 83.

Appropriate Office for Opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Branch, Madras.

16 Claims

An ignition control device for internal combustion engine comprising a variable reluctance transducer driven by the engine and providing an output having zero transitions coinciding with the desired instants of ignition, an integrating circuit to which the transducer output is connected, means for applying a variable preconditioning bias to the output of said integrating circuit, an ignition coil drive circuit connected to said integrating circuit and operating to commence coil current flow as a result of the integrating circuit going into a saturated condition at an instant depending on said variable preconditioning bias and to interrupt coil current flow to produce a spark when said integrating circuit comes out of said saturated condition on reversal of the polarity of the transducer output and means sensitive to the time fraction in each cycle during which the coil current is adequate to produce a spark to the ignition cycle duration, to control said variable bias means to cause said fraction to take up a desired value.

Compl. specn. 17 pages.

Drg. 2 sheets.

CLASS : 40C.

160246

Int. Cl. : B 01 f 3/04.

"AN APPARATUS FOR DISPERSION OF LIQUIDS IN GASES."

Applicant: I.S.C. SMELTING LIMITED, a British Company of 6 St. James's Square, London SW1Y 4 LD, ENGLAND.

Inventor : DAVID LESLIE DERHAM.

Application for Patent No. 237/Mas/84 filed on 5th April, 1984.

Convention date on 5th April 1983./No. 8309172/(Great Britain).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

6 Claims

An apparatus for dispersing a liquid, as droplets, in a gas for heat, or mass-transfer purposes, in which at least one spray envelope of liquid droplets is produced by rotation of a rotor—head mounted on a substantially vertical shaft, which rotor-head is partially immersed in the liquid; characterized in that the rotor-head is a multi-bladed helical impeller having a pitch/diameter ratio between 0.6 and 1.7.

(Complete Specification 7 pages.

Drawing 1 Sheet)

CLASS : 32 C

160247

INT. CL. : C 07 C 103/52

A PROCESS FOR THE MANUFACTURE OF PEPTIDES

Applicant : THE SALK INSTITUTE FOR BIOLOGICAL STUDIES, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF CALIFORNIA, UNITED STATES OF AMERICA, OF 10010 NORTH TORREY PINES ROAD, LA JOLLA, CALIFORNIA 92037, UNITED STATES OF AMERICA.

Inventors : (1) JEAN EDOUARD FREDERIC RIVIER AND (2) WYLIE WALKER VALL, JR.

Application No. 632/MAS/84 filed September 6, 1984.

Appropriate office for the opposition proceeding (Rule 4, Patent Rules, 1972) Patent Office, Madras Branch.

10 Claims

A process for the manufacture of a peptide and its nontoxic salts, said peptide having the Formula (I) :

$R_1-R_2-R_3-Ala-Ile-Phe-Thr-R_8-Ser-R_{10}-Arg-R_{12}-R_{13}-Leu-R_{15}-Gln-R_{17}-R_{18}-Ala-Arg-Lys-Leu-R_{23}-R_{24}-R_{25}-Ile-R_{27}-R_{28}-Arg-Q$ wherein R_1 is Tyr, D-Tyr, Met, Phe, D-Phe, PCl-Phe, Leu, His or D-His, which has either a C_{α} Me or N_{α} Me substitution or is unsubstituted; R_2 is Ala or D-Ala; R_3 is Asp or D-Asp; R_8 is Ser, Asn, D-Ser or D-Asn; R_{10} is Tyr or D-Tyr; R_{12} is Arg or Lys; R_{13} is Ile or Val; R_{15} is Gly or D-Ala; R_{17} is Leu or D-Leu; R_{18} is Tyr or Ser; R_{23} is Leu or D-Leu; R_{24} is His or Gln; R_{25} is Glu, Asp, D-Glu or D-Asp; R_{27} is Met, D-Met, Ala, Nle, Ile, Leu, Nva or Val; R_{28} is Asn or Ser; R_{34} is Arg or Ser; R_{38} is Gln or Arg; R_{39} is Arg or Gly; R_{40} is Ser or Ala; R_{42} is Phe, Ala or Val; R_{43} is Asn or Arg; R_{44} is a natural amino acid and Q is NH_2 , $Gln-Gln-Gly-NH_2$, $Gln-Gln-Gly-Glu-R_{34}-Asn-Gln-Glu-Glu-R_{38}-R_{39}-R_{40}$, $Gln-Gln-Gly-Glu-R_{34}-Asn-Gln-Glu-R_{38}-R_{39}-R_{40}-Arg-R_{42}-R_{43}$ or $Gln-Gln-Gly-Glu-R_{34}-Asn-Gln-Glu-R_{38}-R_{39}-R_{40}-Arg-R_{42}-R_{43}-R_{44}$; provided however that either (a) R_1 has a C_{α} Me or an N_{α} Me substitution or (b) R_{17} and/or R_{23} is D-Leu or (c) R_{25} is either D-Glu or D-Asp comprising (i) coupling individual amino acids or short peptides to form a

compound having at least one protective group and the following Formula (II) or an appropriately shortened version thereof : $X^1-R_1(X \text{ or } X^2)-R_2-R_3(X^3)-Ala-Ile-Phe-Thr(X^4)-R_8(X^4 \text{ or } X^5)-Ser(X^4)-R_{10}(X^2)-Arg(X^6)-R_{12}(X^6 \text{ or } X^7)-R_{13}-Leu-R_{15}-Gln(X^5)-R_{17}-R_{18}(X^2)-Ala-Arg(X^6)-Lys(X^7)-Leu-R_{23}-R_{24}(X^5 \text{ or } X^5)-R_{25}(X^3)-Ile-R_{27}-R_{28}(X^4 \text{ or } X^5)-Arg(X^6)-Gln(X^5)-Gln(X^5)-Gly-Glu(X^3)-R_{34}(X^4 \text{ or } X^6)-Asn(X^5)-Gln(X^5)-Glu(X^3)-R_{38}(X^5 \text{ or } X^6)-R_{39}(X^6)-R_{40}(X^4)-Arg(X^6)-R_{42}-R_{43}(X^5 \text{ or } X^6)-R_{44}(X^8)-X^9$ wherein (X), (X^1) , (X^2) , (X^3) , (X^4) , (X^5) , (X^6) , (X^7) , and (X^8) are each either hydrogen or a protective group and wherein (X^9) is either amide or hydroxyl or a protective group, and (ii) treating with TFA, HF or the like to split off the protective group or groups from said compound of the formula (II) to provide a peptide having the formula (I) and, if desired, (iii) reacting the resulting peptide with a suitable acid or the like to form a non-toxic addition salt thereof.

Complete Specn. 30 pages

No Drg. Sheet

CLASS : 77 A.

160248

Int. Cl. : C 11 b 15/00.

A PROCESS FOR THE PREPARATION OF SOLID FAT FROM EDIBLE OILS WITHOUT HYDROGENATION.

Applicants : (1) VISWANATHA SANKARAN, M.A. I.A.S. (Retd.), No. 6 D'Silva Road, Mylapore, Madras-600 004, Tamil Nadu, India, Indian National and (2) Govinda Vaidyanatha Ramaswamy, B.Sc., 21, Ammani Ammal Street, Madras-600 028, Tamil Nadu, India.

Inventor : VISWANATHA SANKARAN.

Application No. 921/Mas/84 filed November 27, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

3 Claims

A Process for the preparation of solid fat from edible oils without hydrogenation comprising the steps of adding a catalyst, namely, sodium propylene glycoxide at an alkali refined and bleached edible liquid oil or a mixture of said oils; heating the said oil or the mixture from 40°C to 45°C under vigorous agitation until inter-esterification is completed to a melting point of 38°C to 40°C; and washing the fat with hot water to remove the catalyst.

Compl. Specn. 9 pages.

No Drg. Sheet.

CLASS : 55 E4, 32F, 32 F2(b).

160249

Int. Cl. : C 02 d 49/18.

A PROCESS FOR THE PREPARATION OF N-(1-SUBSTITUTED-4, 5-DIHYDRO-1H-PYRAZOL-4-YL) BENZAMIDES.

Applicant : A. H. ROBINS COMPANY, INCORPORATED of 1407 Cummings Drive, Richmond, Virginia 23220, United States of America, a Corporation organised under the laws of the State of Virginia, United States of America.

Inventors : 1. LENNOX BRICKHEAD TURNBULL, 2. JOHN ALEXANDER DONOHUE, 3. GUNNAR ERIK JAGDMANN, JUNIOR.

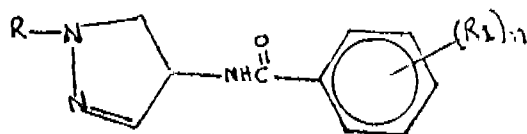
Application No. 131/Mas/85 filed 15th February 1985.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Madras Branch.

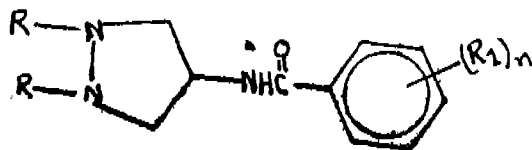
3 Claims

A process for the preparation of N-(1-substituted (4,5-dihydro-1H-pyrazol-4-yl) benzamides having the formula I of the accompanying drawings, wherein,

R is selected from loweralkyl, cycloalkyl, or phenyl-loweralkyl;



Formula I



Formula II

R_1 is selected from hydroxy, cyano, nitro, amino, methyl-amino, dimethyl-amino, halo, trifluoromethyl, lower-alkyl, loweralkoxy, sulfamoyl, or acetamido;

n is an integer from 1 to 3 inclusive, and

R_2 can be the same radical or different radicals, which comprises the steps of:

Step 1, reacting a compound of the formula II of the drawings, wherein R and R_1 are as defined above or a salt thereof with an alkali-metal or alkaline-earth hypochlorite at 0°C to -30°C ;

Step 2, isolating the product by conventional means.

Compl. Specn. 13 pages.

Drg. 1 sheet.

CLASS : 1 E and 83 B3.

160250

"A PROCESS FOR THE PRODUCTION OF A STARCH DISPERSIBLE IN BOILING WATER".

Applicant : SOCIETE DESPRODUITS NESTLE S.A., P.O. BOX 353, 1800 VEVEY, SWITZERLAND.

Inventor : PIERRE WURSCH.

Application No. 19/Mas/85 filed January 9, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

7 Claims

A process for the production of a starch dispersible in boiling water by heat treatment in the presence of water and an emulsifier, comprising preparing a mixture of starch, an emulsifier containing at least one fatty acid monoester in a quantity of from 1 to 5% by weight of fatty acid monoester, based on the dry weight of the starch, and water in such a way that the water content of the mixture amounts to between 20 and 30% by weight and heat-treating the mixture for 1 to 20 minutes at a temperature of 90 to 120°C to obtain a starch showing 95 to 100% dispersibility in boiling water.

Compl. Specn. 13 pages.

CLASS : 55F, 32.F. 3(b).

160251

Int. Cl. : C 11 c 1/00.

PROCESS FOR PREPARING HYDNOCARPII FILARICIDE.

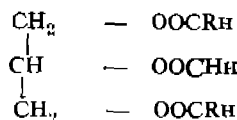
Applicant & Inventor : Mrs. MANDALIKA MAHA-LAKSHMI SUBBA RAO, an Indian National of 15-15-9 Budhavarapu Gardens, Maharanipeta, Visakhapatnam-530 002 Andhra Pradesh.

Application No. 280/Mas/85 filed 11th April 1985.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office, Madras Branch.

4 Claims

A process for preparing a hydnocarpil filaricide compound having the general formula RHCOOX wherein RH represents the fatty acids as herein defined of oleum hydnocarpil (oil extracted from hydnocarpus seeds) and X represents hydrogen or potassium which comprises hydrolysing oleum hydnocarpil having the general formula



wherein RH is as defined above with potassium hydroxide in ethanol medium, treating the reaction mixture with dilute hydrochloric acid at ambient temperature separating the precipitated acid having the formula RHCOOH at a temperature ranging from $4-10^\circ\text{C}$ and thereafter, if desired, treating it with aqueous potassium hydroxide till till the pH reaches 7.4 so as to form the potassium salt thereof.

Compl. Specn. 8 pages.

CLASS : 191.

160252

Int. Cl. : G06f—3/10.

"AN ELECTRIC TYPEWRITER".

Applicant : ABDUL HABIB REHMANI, Rehmani Radios, Pali Bazar, BEAWAR-305 901, Rajasthan, India, an Indian national.

Inventor : ABDUL HABIB REHMANI.

Application for Patent No. 30/Del/84 filed on 9th January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

A typewriter having a movable carriage, a key board for actuating a plurality of keys, said keys disposed between said key board and carriage, a spacer board for actuating said carriage, said spacer board comprising a plurality of electrical contacts spaced from each other, each contact having its respective key, an actuator connected at one end to a power source, the opposite end establishing a contact with any one contact so as to connect the contact to the power source and impart a drive to its respective key said spacer board comprising electrical contacts connected to a spacer member for driving the carriage such that when said actuator manually establishes a contact with the electrical contacts of the spacer board, drive is imparted to the carriage through said spacer member.

Compl. Specn. 10 pages.

Drgs. 2 sheets.

CLASS : 6 B₂.

160253

Int. Cl. : F24f-3/14.

"MOISTURE ELIMINATOR FOR REMOVING LIQUID DROPLETS FROM A GASEOUS STREAM".

Applicant : ALBERT FREDERICK WIGLEY, a British citizen of Stafford Road, Croydon, CR9 4DT, Great Britain.

Inventor : ALBERT FREDERICK WIGLEY.

Application for Patent No. 91/Del/1984 filed on 31st January, 1984.

Convention date 19-2-1983/8304683/(U. K.)

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

22 Claims

A moisture eliminator for removing liquid droplets from a gaseous stream comprising at least one duct which changes direction at least once along its length, the duct being defined by side walls which give a transverse cross-section of the duct a generally trapezoidal shape, a depression in a side wall of the duct, the depression comprising a pair of mutually inclined walls whereby the depressions is generally V-shaped in transverse cross-section, said depression having a shape corner extending along the interior of the depression and formed by the junction between the pair of mutually inclined walls of the depression, and the depression extending along the duct over a major part of the length thereof.

Compl. Specn. 14 pages.

Drgs. 4 sheets.

CLASS : 80 F.

160254

Int. Cl. : B01d-33/14.

'BELT FILTER EQUIPPED WITH AN AIR SUCTION DEVICE'.

Applicant : GUY GAUDFRIN, a French citizen, of 6 Allée du Bec de Canard Golfe de Saint-Nom-La-Breteche, 78860 Saint-Nom-La-Breteche, France.

Inventor : GUY GAUDFRIN.

Application for Patent No. 094/Del/1984 filed on 31st January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

6 Claims

A belt filter for extracting a liquor from a suspension, comprising an endless carrier belt whose upper surface is provided with transverse channels, the upper side of the belt being substantially horizontal and covered with a filtering fabric for receiving the suspension, draining holes being provided in the bottom of said transverse channels of the belt, a draining trough being provided under the lower face of said belt upper side and liquid draining channels at the bottom of said trough, wherein at least one air suction pipe connects the upper part of the draining trough with a vacuum-creating device, an end of said air suction pipe issuing into the trough being situated close to the lower face of the carrier belt upper side.

Compl. Specn. 10 pages.

Drgs. 3 sheets.

CLASS : 87E.

160255

Int. Cl. : A63f 9/04, 9/14.

"TRUE MONKEY RACE GAME".

Applicant : SATYA DEV AHUJA, Son of Shri Atam Parkash, Sole prop; M/s. Gems (India) Product, C-13, Laxman Park, Gali No. 2, Chander Nagar (East), Delhi-110 051, nationality: Indian.

Inventor : SATYA DEV AHUJA.

Application for Patent No. 142/Del/84 filed on 18th February, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

2 Claims

A monkey race device comprising of one or more ladders like structure mounted on a base, each ladder having teeth along its length, the ladder having numerals adjacent each tooth to indicate the number of the tooth from the first tooth, a monkey like body slideable along the ladder and having means thereon restable on any desired tooth whereby on the indication of number given by a dice, the body can be shifted from one tooth by said number to rest on the corresponding tooth.

Compl. specn. 4 pages.

Drg. 1 sheet

CLASS : 32F3(a).

160256.

Int. Class : C 07 c—69/00.

A PROCESS FOR ESTERIFICATION OF CARBOXYLIC ACIDS.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : BHAGAVATULLA RAVINDRANATH PUL-LABHATLA SRINIVAS.

Application for Patent No. 154/DEL/1984 filed on the 21st February, 1984.

Appropriate office for filing opposition proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-110 005.

6 Claims.

A process for the esterification : of carboxylic acids which comprises treating the corresponding zinc salt of the acid with an alkyl halide in the presence of an aprotic organic solvent and an organic base.

(Complete Specification 06 Pages).

CLASS : 127 I & 134 B.

160257.

Int. Class : B 62 m—9/00.

VARIABLE-RATIO-TRANSMISSION DEVICE.

Applicant : PIAGGIO & C. S.P.A., A COMPANY ORGANISED UNDER LAWS OF THE ITALIAN REPUBLIC OF VIA A. CECCHI 6, GENOVA, ITALY.

Inventors : BRUNO GADDI.

Application for Patent No. 167/DEL/1984 filed on the 24th February, 1984.

Appropriate office for filing opposition proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-110 005.

6 Claims.

A variable-ratio transmission device comprising a V-belt coupling two expansible sheaves, each said sheave consisting of a fixed half-sheave and a movable half-sheave, characterised in an automatic servomechanism engaging and positioning one of said movable half-sheaves in dependence on driving speed imparted to one of said sheaves, a resilient member biasing the fixed half-sheave and movable half-sheave of the other expansible sheave towards each other to retain said V-belt in contact with said expansible sheaves.

(Complete Specification 12 Pages. Drawings 02 sheets)

CLASS : '85 R & J.

160258

Int. Class : F 27b 1/00 & E21 b 33/00.

APPARATUS FOR PLUGGING TAP HOLES OF SHAFT FURNACES.

Applicant : PAUL WURTH S.A., OF 32 RUE D'ALSACE, LUXEMBOURG, GRAND-DUCHY OF LUXEMBOURG, A COMPANY ORGANISED UNDER THE LAWS OF LUXEMBOURG.

Inventors : PIERRE MAILLIET, LEON ULVELING & JEAN METZ.

Application for Patent No. 218/Del/84 filed on 8th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims.

Apparatus for plugging tap holes of shaft furnaces, comprising a fixed support frame with a main pivot, a job consisting of a rotary support arm which is rotatably mounted on the said main pivot and of which the free end bears via an auxiliary pivot a clay gun and a guide bar flexibly connected by one end to the clay gun and by the other to the fixed frame, as well as a hydraulic jack which is mounted on journals in the frame and of which the piston rod actuates the support arm, causing the latter and the clay gun to pivot from a retracted position to an operative position and vice versa, wherein the journals securing the jack and juxtaposed to the main pivot, wherein the rod of the jack is arranged to move constantly through an indentation provided for it in the support arm, wherein the free end of the rod is flexibly connected to a pivot provided on the lower side of the support arm and wherein the latter is bent in such a way that the inside of the bend positions itself around the journals of the jack when the clay gun occupies its retracted position.

(Complete specification 10 pages. Drawing 4 sheets).

CLASS : 144 E, g & 208.

160259

Int. Class : C09d—11/00.

A PROCESS FOR THE PREPARATION OF A PRINTING PASTE FOR PRINTING OF JUTE OR JUTE LAMINATED MATERIAL.

Applicant : SHRI RAM INSTITUTE FOR INDUSTRIAL RESEARCH, 19, UNIVERSITY ROAD, DELHI-110007, INDIA, AN INDIAN INSTITUTE.

Inventors : AJAY KUMAR JAIN & UMESH TANEJA.

Application for Patent No. 241/Del/1984 filed on 16th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-110 005.

5 Claims.

A process for preparation of a printing paste for the use on jute or jute laminated material which comprising in the step of mixing 0.4 to 5% by weight of a known printing gum, a natural polymer such as herein described and accelerator such as herein described present in the ratio of 1 : 1 to 4 : 1 0.2 to 2% by weight of a known water soluble dye 0.2 to 0.2% by weight of a weight of known pigment emulsion, 0. to 0.2% by weight of an emulsifier the remainder being water added thereto, said percentage weight being by weight of the printing paste.

(Complete Specification 8 pages).

CLASS : 37 B & 167 C.

160260.

Int. Class : B03c—1/00.

AN APPARATUS FOR SEPARATING MAGNETIC OR WEAKLY MAGNETIC PARTICLES FROM A FEED MATERIAL INCLUDING NON-MAGNETIC MATERIAL.

Applicant : EDWARD MARTINEZ, A U.S. CITIZEN, OF 1 ALPINE COURT, HUNTINGTON COURT, BELLE MEAD, NEW JERSEY 08502, U.S.A.

Inventor : EDWARD MARTINEZ.

Application For Patent No. 251/Del/1984 filed on 21st March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-110 005.

14 Claims.

An apparatus for separating magnetic or weakly magnetic particles from a feed material including non-magnetic material which comprises :

a generally downward sloping surface over which said feed material flows under the influence of gravity;

means for applying a magnetic force acting substantially co-directionally with the force of gravity to said feed material flowing over said surface; and

Means associated with said magnetic force applying means for varying said magnetic particles on said surface.

(Complete specification 21 pages). Drawing 4 sheets

CLASS : 167D, 116G.

160261

Int. Class : B01—1/04, G01n—33/44.

APPARATUS FOR METERING RESIN GRANULES FOR USE IN A MOVING FOLDED BED ION EXCHANGE.

Applicant : AMERICAN PETRO MART, INC., A CORPORATION ORGANISED UNDER THE LAWS OF STATE OF FLORIDA, U.S.A., OF 125 NORTH WILSON, BARTOV, FLORIDA 33830, U.S.A.

Inventors : WILLIAM RICHARD ERICKSON & SOLON GENE WHITNEY.

Application for Patent No. 357/Del/84 filed on 26th April, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-110 005.

3 Claims.

An apparatus for metering resin granule for use in a moving folded bed ion exchange comprising :

(a) an upwardly-extending metering chamber having a resin inlet communicating with the lower portion thereof;

(b) a screen disposed across the interior of said chamber at a level above said lower portion, said screen permitting liquid to pass therethrough while retaining resin granules forced there against;

(c) a flexible wall enclosing a portion of the interior of said metering chamber below said screen, said wall irrespectively decreasing or increasing the volume of said chamber below said screen when flexed inwardly or outwardly;

(d) hydraulic pressure generating means arranged to act against the outside of said wall for positioning said wall to provide a preselected variable volume in said metering chambers; and

(e) means for transferring liquid-containing resin granules into said metering chamber below said screen; and

(f) means for stopping said transfer when said granules become compacted against said screen.

Compl. Specn. 17 pages.

Drgs. 2 sheets.

CLASS : 98 I & 206E.

160262.

Int. Cl. : F24j 3/02 & H011 3/00.

METHOD OF FABRICATING SOLID STATE SEMI-CONDUCTOR DEVICES.

Applicant : MOBIL SOLAR ENERGY CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF STATE OF DELAWARE, U.S.A., OF 16 HICKORY DRIVE, WALTHAM, MASSACHUSETTS 02154, U.S.A.

Inventor : ARUP RATAN CHAUDHURI.

Application for Patent No. 31/Del/1984 filed on 9th January, 1984.

Appropriate office for opposition proceedings (Rule, 4 Patents Rules, 1972) Patent Office Branch, New Delhi-5.

24 Claims

Method of fabricating a solid state semiconductor device using a silicon substrate having first and second opposite surfaces, said method comprising the steps of :

- (a) forming a PN junction in said substrate adjacent said first surface;
- (b) forming on said first surface a polysilazane coating having a relatively fast etch rate relative to a selected etchant such as herein described;
- (c) forming on said polysilazane coating an etch resistant coating that defines a predetermined two-dimensional pattern;
- (d) removing those portions of said polysilazane coating that are not covered by said etch-resistant coating so that selected portions of said first surface are exposed to the atmosphere;
- (e) accomplishing in selected order (1) the removal of residual etch-resistant coating, (2) the formation of an aluminum layer on said second opposite surface which is alloyed with said silicon substrate, and (3) the conversion of said polysilazane coating to a composition of silicon and nitrogen having a relatively low etch rate relative to said selected etchant;
- (f) applying a nickel coating to said selected portions of said first surface; and
- (g) sintering said nickel coating so that the nickel and silicon react to form a nickel silicide at their interface.

Compl. Specn. 33 pages.
3—137GI/87

Drgs. 1 sheet.

CLASS : 98 E.

160263.

Int. Cl. : F22nd 1/28.

A WASTE HEAT BOILER.

Applicant : BELGORODSKY ZAVOD ENERGETICHESKOGO MASHINOSTROENIA IMENI 60-LETIA SOJUZA SSR, OF ULTSA B. KHEMELNITSKOGO, III BELGOROD, USSR, A REGISTERED USSR ORGANISATION.

Inventors : GENNADY VASILIEVICH MASLOVSKY, VORIS PETROVICH PODOBA, BORIS NIKOLAEVICH CHEFRANOV, VERA ALEXANDROVNA ROSTOVSKAYA, IVAN VASILIEVICH GUBIN AND IGOR ALEXEEVICH GRITSJUK.

Application for Patent No. 45/Del/84 filed on 17th January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

6 Claims

A waste heat boiler provided with a heat absorbing wall surface on the said facing a converter, said surface being of a cylindrically bevelled shape and comprised by downtake and uptake tubes provided in a plane perpendicular to the vertical axis, along two concentric circumferences said uptake tubes being disposed on the inside circumference and said downtake tubes being disposed on the outside circumference, said tubes being grouped in banks and said uptake and said downtake tubes in each bank being interconnected to form a coil.

Compl. Specn. 17 pages.

Drgs. 3 sheets.

CLASS : 83 A 4.

160264.

Int. Cl. : C 12 c 11/26.

A PROCESS FOR THE PRODUCTION OF SPHERICAL AGAR BEADS.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : BINOD KUMAR GOGOI, KRISHNA PILLAI, RAVINDRANATHAN PILLAI, JOGENDRA NATH BATUAH.

Application for Patent No. 585/DEL/1984 filed on 21 Jul 1984.

Complete Specifications left on 1 Jul 1985.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-5.

4 Claims

A process for the production of spherical agar beads containing viable yeast cells comprising dropping in the form of droplets a mixture of agar and viable yeast cells on a layer of vegetable oil spread over water and kept at a room temperature, separating the beads formed from the aqueous phase and washed with sterile water.

Provisional Specifications 5 Pages.

Compl. Specn. 5 pages.

CLASS : 128 G.

160265.

Int. Cl. : A61b 19/00.

A PROCESS FOR THE PREPARATION OF ANTIGEN STRIPS OR DISCS FOR CONDUCTING TESTS RELATING TO CONTACT DERMATITIS.

Applicant : THE DIRECTOR, ALL INDIA INSTITUTE OF MEDICAL SCIENCES OF ANSARI NAGAR, NEW DELHI-110 016.

Inventor : PASRICHA JAGJIT SINGH.

22 Claims

Application for Patent No. 636/Del/84 filed on 8th August, 1984.

Divisional to Application No. 701/Del/80 filed on 29th September, 1980.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-5.

3 Claims

A process for the preparation of antigen strips or discs for use in patch tests for contact dermatitis comprising in soaking a pervious sheet in a solution or extract of an antigen agent until said sheet has a uniform distribution of said agent therein and thereafter drying said sheet characterized in that said antigen agent is parthenium hysterophorus prepared by drying the leaves of parthenium hysterophorus for removal of moisture therefrom, crushing said dried leaves and thereafter adding water thereto to prepare a solution and then filtering said solution.

Compl. Specn. 7 pages.

CLASS : 128 G .

160266.

Int. Cl. : A61b 19/00.

A PROCESS FOR THE PREPARATION OF ANTIGEN STRIPS OR DISCS FOR CONDUCTING TESTS RELATING TO CONTACT DERMATITIS.

Applicant : THE DIRECTOR, ALL INDIA INSTITUTE OF MEDICAL SCIENCES OF ANAPURI NAGAR, NEW DELHI-110 016, INDIA.

Application for Patent No. 638/Del/84 filed on 8th August, 1984.

Divisional to Application No. 701/Del/80 filed on 29th September, 1980.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-5.

2 Claims

A process for the preparation of antigen strips or discs for use in patch tests for contact dermatitis comprising in soaking a pervious sheet in a solution or extract of an antigen agent until said sheet has a uniform distribution of said agent therein and thereafter drying said sheet characterized in that said antigen agent is garlic prepared by crushing garlic cloves in presence of water to obtain an extract and wherein 8 to 12 ml. of water is added to every 10 gms. of clove.

Compl. Specn. 6 pages.

CLASS : 127 C.

160267

Int. Cl. : F16f—1/00, 1/28.

"POSITIVE DRIVE POWER TRANSMISSION BELTS AND METHOD FOR MANUFACTURING SUCH TRANSMISSION BELTS".

Applicant : UNIROYAL, INC., a corporation organized under the laws of the State of New Jersey, United States of America, having an office at 1230, Avenue of the Americas, New York, New York 10020, United States of America.

Inventor : ROBERT CHARLES KOHRN.

Application for Patent No. 898/Del/1984 filed on 27th November, 1984.

Divisional to Patent Application No. 287/Del/1981 filed on 6th May 1981. Antidated to 6-5-1981.

Appropriate office for opposition proceedings (Rules 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

A positive drive power transmission belt comprising a tensile member having a plurality of elastomer teeth secured to at least one side of the tensile member and extending along the tensile member, the teeth being spaced from each other by a belt land area, the outer surface of said belt teeth forming the working surface of the belt which comes into impact contact with a corresponding working surface of a pulley arranged to mesh with said belt teeth, when the belt and the pulley are used as part of a power transmission system, the working surface of said belt having a plurality of surface discontinuities thereon to reduce the operating noise of said belt when it comes into impact contact with said pulley.

A method for manufacturing positive drive transmission belts claimed in any preceding claim having surface discontinuities on the belts working surface, the teeth being spaced from each other by a land surface, comprising the steps of :

helically winding thread of a material such as cured elastomer which does not bind to the belts during molding around the outer circumference of a cylindrical mold having axially extending grooves therein to form belt tooth cavities;

applying at least one layer of fabric around the circumference of the mold over the thread;

helically winding an inextensible member in a plurality of convolutions around the circumference of the mold over the fabric to form a load carrying member for the belt;

Applying a layer of moldable elastomer over the member;

heating and applying pressure to the layer of elastomer to force the softened elastomer through the spaces between successive convolutions of the member and filling the belt tooth cavities by forcing the fabric into contact with the walls of the grooves and filling the space between the fabric and the member with the elastomer;

removing the resulting belt slab from the mold and removing from the belt slab, the thread thereby forming surface discontinuities in the belt extending substantially in the longitudinal operating direction of the belt.

Compl. Specn. 24 Pages.

Drgs. 8 Sheets.

CLASS : 127 C.

160268

Int. Cl. : F16l—7/00.

"POSITIVE DRIVE POWER TRANSMISSION ASSEMBLY".

Applicant : UNIROYAL, INC., a corporation organized under the laws of the State of New Jersey, United States of America, having an office at 1230, Avenue of the Americas, New York, New York 10020, United States of America.

Inventor : ROBERT CHARLES KOHRN.

Application for Patent No. 287/Del/1981 filed on 6th May, 1981.

Appropriate office for opposition proceedings (Rules 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

10 Claims

A positive drive power transmission assembly comprising a belt formed from a tensile member having a plurality of elastomer teeth secured to at least one side of the tensile member and extending along the tensile member, with each belt tooth having a flank portion and a tip portion, said flank portion of one tooth being spaced from the next consecutive flank portion of a next consecutive belt tooth by a belt land area, at least one of said flank portions including a first working surface area, and at least one tooth pulley having a plurality of pulley teeth which mesh with the belt teeth, with each pulley tooth having a second working surface area which makes impact contact with the first working surface area of the respective belt teeth when the belt and

pulley are in meshing engagement, the belt and pulley generating an operating noise level at a given meshing frequency characteristic of the impact contact between the first and second working surface areas of the belt and the pulley, a plurality of surface discontinuities of predetermined size and shape formed on said first working surface areas to modify the impact contact between the first and second working surface areas by promoting a cushioning affect at the area of impact contact and thereby reduce the operating noise level of said power transmission assembly at the given meshing frequency.

Compl. Specn. 22 Pages

Drgs. 8 Sheets.

CLASS : 145 E

160269

Int. Cl. : D21-1/00, 3/00 & 5/00.

"A METHOD FOR PRODUCING A HIGH QUALITY NEWSPRINT PULP WOOD OR VEGETABLE FIBROUS MATERIAL".

Applicant : PROCESS EVALUATION AND DEVELOPMENT CORPORATION, of 3400 International Building, Dallas, Texas 75270, United States of America, a Delaware corporation.

Inventor : EDUARDO JOEL VILLAVICENCIO.

Application for Patent No. 329/Del/1981 filed on 25th May, 1981.

Appropriate Office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-5.

13 Claims

A method for producing a high quality newsprint pulp from wood or vegetable fibrous material such as herein defined, comprising :

- (a) providing said fibrous material in a form suitable for input into a digester ;
- (b) (i) conveying at least forty percent by weight of said fibrous material to a thermochemical digester and contacting said fibrous material with an alkaline cooking liquor whereby lignin is removed from said fibrous material and said fibrous material is substantially converted to its fiber components;
- (ii) after digesting said fiber for from 0.1 to 1 hour at 140°C to 190°C, refining in a manner such as herein described the digested fiber at above 100°C;
- (iii) rapidly reducing the pressure on said digested fibers to about ambient pressure and washing and screening said fiber to remove pulping chemicals and dirt and other foreign fragments therefrom; and
- (iv) contacting said fibers with a bleachant such as herein described for a time sufficient to raise the GE brightness of said fibers to greater than about 60;
- (c) (i) conveying the remainder of said fibrous material to a thermomechanical digester which consists of a first section and second section, said sections being separated by a refiner;
- (ii) connecting said fibrous material within the first section, of said thermomechanical digester with steam at a pressure greater than about 2 kg/sq. cm. and mechanically working said fiber in said section of the digester to partially reduce said fibrous material to its fiber components;
- (iii) conveying the fibrous material from the first section of said digester to a refiner and refining in a manner such as herein described said fibrous material;

(iv) contacting the refined fiber in the second section of said thermomechanical digester with steam at a pressure of less than 2 kg/sq. cm. whereby said fibrous material is substantially reduced to its fiber components;

(v) refining in a manner such as herein described the digested fiber and rapidly reducing the pressure on the digested fiber to about ambient and refining said fibers; and

(vi) washing and screening the refined fibers to remove dirt and large fiber fragments therefrom;

(d) Intermixing the bleached fiber from thermomechanical digestion with the fiber from thermomechanical digestion to produce said high quality newsprint pulp.

Compl. Specn. 21 Pages.

Drgs. 3 Sheets.

CLASS : 145 E₂

160270

Int. Cl. : D21c—9/00 & D061—3/00.

A METHOD FOR PRODUCING A THERMOMECHANICAL PULP HAVING IMPROVED BRIGHTNESS.

Applicant : PROCESS EVALUATION AND DEVELOPMENT CORPORATION, A DELAWARE CORPORATION, A DELAWARE CORPORATION OF 3400 INTERNATIONAL BUILDING, DALLAS, TEXAS 75270, U.S.A.

Inventor : EDUARDO JOEL VILLAVICENCIO.

Application for Patent No. 215/Del/1984 filed on 7th March 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

11 Claims

A method for producing a thermomechanical pulp having improved brightness comprising :

- (a) contacting a fiber source with a bleachant of the kind described herein and steam at an autogenous pressure of 2 kg/cm² to 15 kg/cm²;
- (b) adding a second amount of bleachant and rapidly decreasing the pressure on said fiber source at least 0.5 kg/cm² to a first lower pressure;
- (c) continuing the contact of said fiber source with steam and bleachant at said first lower pressure; and
- (d) optionally adding a third amount of bleachant and rapidly decreasing the pressure on said fiber source at least 0.5 kg/cm² to a second lower pressure.

Compl. specn. 11 pages.

Drg. 1 sheet

CLASS : 145E₂

160271

Int. Cl. : D21 1/00, 3/00 & 5/00.

METHOD FOR PRODUCING A PULP SUITABLE FOR PRODUCING A LOWER STRENGTH PAPER.

Applicant : PROCESS EVALUATION AND DEVELOPMENT CORPORATION, OF 3400 INTERNATIONAL BUILDING, DALLAS, TEXAS, 75270, UNITED STATES OF AMERICA, A DELAWARE CORPORATION.

Inventor : EDUARDO JOEL VILLAVICENCIO.

Application for Patent No. 117/Del/85 filed on 13th February, 1985.

Divisional to Patent application No. 329/Del/81 filed on 25th May, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

A method for producing a pulp suitable for producing a lower strength paper such as herein defined by means of thermomechanically digesting a fibrous material comprising :

- (a) feeding said fibrous material into the feed end of the first tubular chamber of a two tube interconnected digester;
- (b) adding steam at a pressure of greater than about 2 kg/sq cm to said first tubular chamber;
- (c) propelling said fibrous material within said first tubular chamber from said feed end to said exit end;
- (d) feeding said fibrous material from said exit end of said first tubular chamber into a pulp refiner, wherein the pressure on said fibrous material decreases about 1 kg/sq. cm;
- (e) feeding a partially digested fibrous material from said pulp refiner into the feed end of the second tubular chamber of said two tube interconnected digester;
- (f) propelling said partially digested fiber within said second tubular chamber from said feed end to the exit end while maintaining a pressure of less than about 2 kg/sq cm;
- (g) conveying the digested fiber to a refiner and refining said fibers;
- (h) after refining said digested fiber, reducing said pressure to about prevailing atmospheric pressure;
- (i) refining the digested fiber to further disintegrate loosely agglomerated fiber bundles;
- (j) washing and screening the refined fibres to remove dirt and large fiber fragments therefrom and leave a pulp suitable for producing a lower strength paper.

Compl. specn. 13 pages.

Drg. 2 sheets

CLASS : 180

160272

Int. Cl. : F 24 b—1/18.

COOKING AND/OR HEATING STOVE.

Applicant : PETER ARTHUR HAWKSLEY-HILL, A BRITISH CITIZEN, OF P.O. BOX 44416, NAIROBI, KENYA.

Inventor : PETER ARTHUR HAWKSLEY-HILL.

Application for Patent No. 146/Del/1984 filed on 20 February, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

A cooking and or heating stove comprising a casing surrounding a generally cylindrical container having a vertical axis, a grating positioned in said container to divide said container into an upper combustion chamber, open at the top, and a lower air chamber into which combustion air is drawn, a hand operated air pump mounted on a side wall of said casing, and a first air input means on the side wall of said casing opposite said air pump whereby said pump draws air from the exterior of said casing, valve means comprising two air inlets and an air outlet provided in said air chamber, conduit means for passing air from an output of said air pump to one of said two air inlets of said valve means and a second air input means in communication with the other of said two air inlets of said valve means whereby combustion air may be drawn into said air chamber from said first air input means by said air pump and said conduit means or said combustion air may enter said air chamber through said second air input means by natural convection.

Compl. specn. 11 pages.

Drg. 3 sheets

CLASS : 88 D

160273

Int. Cl. : C 10 1—3/00, 5/42.

A BIOGAS DIGESTER.

Applicant : KAPCOMPANY GENERAL LIMITED, C/O KAPUR SOLAR FARMS, BIJWASAN NAJAFGARH ROAD, P.O. KAPSA HERA, NEW DELHI-110037, INDIA, AN INDIAN COMPANY.

Inventors : JAGDISH CHANDRA KAPUR.

Application for Patent No. 210/Del/1984 filed on the 06th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

3 Claims

A biogas digester for causing an anaerobic digestion or fermentation of aquatic plants, such as water-hyacinth, comprising a digestion chamber provided with a cover, a gas outlet in said cover, an inlet and an outlet for introduction and disposal of slurry consisting of aquatic plant provided in said chamber, said digestion chamber having therein a rotatable shaft with a stirrer mounted thereon characterised in that said inlet is provided between the base of the chamber and said gas outlet in the acid bacterial zone of said digestion chamber, said outlet for disposal of digested slurry is provided at the base of said chamber, said stirrer being provided in the chamber, a stirrer guide being provided within said chamber and extending below the upper surface of the slurry.

Complete specn. 13 pages.

Drg. 1 sheet

CLASS : 103 & 144 E₂

160274

Int. Cl. : C 23 f 11/18.

IMPROVEMENTS IN OR RELATING TO THE PREPARATION OF WATER BORNE SELF CURING ZINC SILICATE COATINGS.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : SUBBIAH GURUVIAH, MEYYAPPA SUNDARAM AND KUMMATTHIDAI, SANTHANAM RAJAGOPALAN.

Application for Patent No. 650/Del/84 filed on 13th August, 1984.

Complete specification left on 27th May, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A process for the preparation of water borne self curing zinc silicate coating for protection of steel structures which comprises reacting zinc dust and red lead in 1 : 1 sodium silicate solution containing an additive such as herein-described and grinding the mixture to form a paste.

Provisional specification 5 pages.

Complete specification 6 pages.

CLASS : 15D

160275

Int. Cl. : F16c 9/00.

A JOURNALED BEARING ASSEMBLY.

Applicant : FEDERAL-MOGUL CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF MICHIGAN, LOCATED AT 26555 NORTHWESTERN HIGHWAY, SOUTHFIELD, MICHIGAN 48034, UNITED STATES OF AMERICA.

Inventor : ALBERT J. MATZELLE.

Application for Patent No. 751/Del/84 filed on 25th September, 1984.

Divisional to application No. 320/Del/81 dated 21st May, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

2 Claims

A journaled bearing assembly having a pair of half shells each said half shell having an outer surface and an inner bearing surface with said outer surface and said inner bearing surface extending axially between laterally spaced opposite ends of said half shells and circumferentially between oppositely disposed parting faces thereof, said bearing surface and said outer surface being axially bowed between said laterally spaced opposite ends while in the free state to provide concave and convex surfaces, further concave and convex surfaces extending between said oppositely disposed parting faces, each said half shell extending about an axial center and terminal portions of each half shell adjacent said parting faces being on a longer radius from said axial center than a radius of the central portion of said half shell between said parting faces while in the free state; a shaft having a journaled portion, said pair of half shells defining a bearing sleeve disposed about said journaled portion with said parting faces of one half shell abutting said parting faces of the other half shell and said bearing surfaces of said half shells being in engagement with said journaled portion, clamping means engaging said half shells to radially force said shells to deflect said concave and convex surfaces from said axially bowed configuration between said laterally spaced opposite ends into a substantially cylindrical sleeve bearing with maximum stress of said clamping means on axial midpoints of said outer surfaces between said laterally spaced opposite ends, said stress on said half shells continuously decreasing towards their laterally spaced opposite ends.

Compl. specn. 11 pages.

Drg. 2 sheets

CLASS : 15 D

160276

Int. Cl. : F16c 9/00.

SLEEVE BEARING HALF SHELL.

Applicant : FEDERAL-MOGUL CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF MICHIGAN, LOCATED AT 26555 NORTHWESTERN HIGHWAY, SOUTHFIELD, MICHIGAN 48034, UNITED STATES OF AMERICA.

Inventor : ALBERT J. MATZELLE.

Application for Patent No. 320/Del/81 filed on 21st May, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

A sleeve bearing half shell (18) of a generally semi-circular configuration and having an outer surface (20) and an inner bearing surface (22) for engaging a journaled member (12), said surfaces (20, 22) extending axially between laterally spaced opposite ends (24) and circumferentially between opposite disposed parting faces (26), characterized by being bowed axially between said ends with said bearing surface (22) being concave and said outer surface (20) being convex while in the free unstressed state.

Compl. specn. 10 pages.

Drg. 2 sheets

CLASS : 15 C

160277

Int. Cl. : F16c 9/04.

A HALF-SHELL FOR A SLEEVE BEARING.

Applicant : FEDERAL-MOGUL CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF MICHIGAN, LOCATED AT 26555 NORTHWESTERN HIGHWAY, SOUTHFIELD, MICHIGAN 48034, UNITED STATES OF AMERICA.

Inventor : ALBERT J. ROBERTS.

Application for Patent No. 887/Del/1984 filed on 22nd November, 1984.

Divisional to 198/Del/1981 filed on 8th April, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

A half-shell for a sleeve bearing adapted to make along diametrically opposed abutting edges with an identical half-shell to form a composite sleeve bearing, said half-shell having an outer cylindrical surface and an inner bearing surface for engaging a journaled member, said bearing surface extending 180° and consisting of a first portion (A) beginning at one abutting edge and extending circumferentially on a constant radius (r) part of said 180° and a second portion (B) generated about at least one eccentric point beginning at the opposite abutting edge and extending circumferentially outside said constant radius (r) for the remainder of said 180° and joining said first portion (A) on said constant radius (r).

Compl. specn. 11 pages.

Drg. 2 sheets

CLASS : 32 F₁

160278

Int. Cl. : C 07 c—43/30.

AN IMPROVED PROCESS FOR THE PREPARATION OF 2-CHLORO ACETALDEHYDE DIALKYL ACETAL.

Applicant : VAM ORGANIC CHEMICALS LIMITED, AN INDIAN COMPANY, INCORPORATED UNDER THE INDIAN COMPANIES ACT AND HAVING ITS REGISTERED OFFICE AT GAJRAULA 244235, DIST. MORADABAD, UTTAR PRADESH, INDIA.

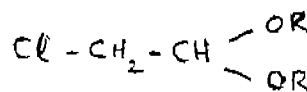
Inventors : RAJENDRA PRASAD SINGH, VYAKARANAM KAMESHWAR RAO AND SATISH CHANDRA BISRAYA.

Application for Patent No. 969/Del/1984 filed on 29th December, 1984.

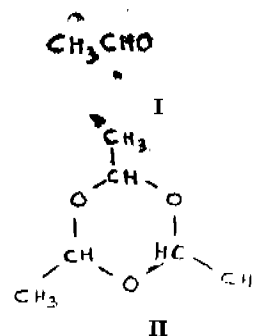
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

An improved process for preparation of 2-chloro-acetaldehyde dialkyl acetal of formula III



wherein R is alkyl group with C₁ to C₄ carbon atoms and which comprises :



- (a) reacting acetaldehyde or paraldehyde of formula I and II with chlorine in a controlled manner at a temperature from 5°-21°, for 6-20 hours, to give 2-chloroacetaldehyde;

(b) reacting the 2-chloroacetaldehyde formed, with an alkanol having C_1 to C_6 carbon atoms in the same vessel, in presence of a dehydrant such as herein described, in the absence of any conventional additional acid catalyst such as HCl, H_2SO_4 , PTSA or ion exchange resin etc. followed by washing, and (c) distillation of washed product to produce 2-chloroacetaldehyde dialkyl aceta.

Compl. specn. 13 pages.

Dr. 1 sheet

CLASS : 40 B

160279

Int. Cl. : B 01 j 11/40 & 11/38.

PROCESS FOR THE PREPARATION OF A CATALYST USEFUL FOR THE SELECTIVE CONVERSION OF ETHYLENE INTO AROMATIC HYDROCARBONS CONTAINING 6 TO 8 CARBON ATOMS.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA.

Inventor : PAUL RATNASAMY, SUNEETA BALWANT KULKARNI, IKKANDATH BALAKRISHNAN, BOLLAPRAGADA SESHAGIRI RAO AND VASUDEO PANDURANG SHIRALKAR.

Application for Patent No. 61/Del/85 filed on 25th January, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

3 Claims

A process for the preparation of a catalyst useful for the selective conversion of ethylene singly or in admixture with other light hydrocarbons containing 1 to 4 carbon atoms, comprising reaction of a source of aluminium with a source of silica to form amorphous and crystalline aluminosilicate allowed by a gel formation from a solution containing oxide of sodium, aluminium and silicon, sulphuric acid, water and the bromide salt of an ammonium compound having the chemical formula $A_xB_yN+Br^-$ wherein A and B are ethyl, propyl or butyl but not necessarily the same group each, wherein the values of x and y may vary between 1 and 3 each, drying and calcining the resultant gel followed by ion-exchange to get a product having the molar ratio of sodium oxide to aluminum oxide in the range of 0.05 to 0.3, wherein the crystalline aluminosilicate has a silica to alumina ratio of 25 to 100 and the amorphous alumina silicate has a silica to alumina ratio of 5 to 200.

Compl. specn. 15 pages.

CLASS : 17 A.2

160280

Int. Cl. : A.23 I. 1/00.

A PROCESS FOR THE PREPARATION OF A BEVERAGE.

Applicant : DINA NATH GANDHI, AN INDIAN NATIONAL, OF NATIONAL DAIRY RESEARCH INSTITUTE, KARNAL-132001, INDIA.

Inventor : DINA NATH GANDHI.

Application for Patent No. 69/Del/85 filed on 30th January, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims

A process for the preparation of a beverage from whey which comprises in subjecting whey to a heat treatment for removal of undesirable micro organisms, cooling said heated whey and then subjecting the cooled whey to the

step of, fermentation by introduction of an inoculum consisting of *L. acidophilus* to obtain a fermented brath, said step of fermentation being continued till the broth has a pH of 3.8 to 4, subjecting the broth to the step of filtration for removal of the precipitates therefrom and, thereafter, adding a known sweetening and flavouring agent.

Compl. specn. 10 pages.

CLASS : 83 A 1.

160281

Int. Cl. : A 23 1-1/30.

"PROCESS FOR PRODUCING AN IMPROVED VIENNA SAUSAGE MEAT ANALOG PRODUCT".

Applicant : GENERAL FOODS CORPORATION, a corporation organised and existing under the laws of the State of Delaware, located at 250 North Street, White Plains, New York 10625, U.S.A.

Inventors : RITA WILMA BRANDER, TERESA ANN RAAP & MARSHALL MILES RANKOWITZ.

Application for Patent No. 226/Del/85 filed on 18th March, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

11 Claims

A process for producing an improved Vienna sausage meat analog product approximating the juiciness and tenderness properties of an all meat product comprising :

(a) dispersing a fat release emulsion phase in a continuous matrix phase,

said fat release emulsion phase comprising from 10 to 50 weight percent of said meat analog and said fat release emulsion phase being comprised of at least about 65 weight percent of vegetable oil, water within the range of from 10 to 30 weight percent, and a non-vegetable protein within the range from 5 to 10 weight percent selected from the group consisting of albumin, casein and whey and mixtures thereof,

said continuous matrix phase comprising from 50 to 90 weight percent of said meat analog and said continuous matrix phase being comprised of water, protein within the range of from 5 to 50 weight of the matrix phase said protein including an edible heat coagulable proteinaceous material, a hydrocolloid within the range of from 0.05 to 3 weight percent selected from the group consisting of xanthan gum and locust bean gum, and mixtures thereof, a particulate unmodified waxy maize starch of branched chain amylopectin polymers within the range of from 3 to 30 weight percent and a liquid or semi-liquid fat at a level of up to 50 weight percent; and

(b) stuffing the dispersion into an edible or non-edible casing and heat setting to produce an improved Vienna sausage meat analog.

Compl. Specn. 22 pages.

CLASS : 35C.

160282

Int. Cl. : CO4b.

"A PROCESS FOR THE MANUFACTURE OF REACTIVE BELITE CEMENT".

Applicant : CEMENT RESEARCH INSTITUTE OF INDIA, of M-10, South Extension Part-II, Ring Road, New Delhi-110 049, India, an Indian Institute.

Inventors : SURENDRA NATH GHOSH, SURENDRA KRISHAN CHOPRA, VIJAY KUMAR MATHUR & SATISH CHANDRA SHARMA.

Application for Patent No. 43/Del/84 filed on 17th January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

A process for the manufacture of reactive belite cement clinker which comprises in preparing a known raw mix of limestone, clay and known additives characterized in adding thereto 0.75 to 1.5% by weight of dopant of the kind herein described and firing said mix to a temperature of between 900 to 1375°C, and then air quenching the clinker so obtained.

Compl. Specn. 9 pages.

CLASS : 92 D.

160283

Int. Cl. : 198 B.

"A PROCESS FOR THE INSTANT SEPARATION OF MUSKMELON SEEDS FROM ITS INTERNAL MUCILAGENOUS BALL".

Applicant : Gurdeep Singh Johar and Gulab Dutt Tiwari (both citizens of India) Chemistry Department, V.S.S.D. College, Kanpur-208 002.

Inventor : Gurdeep Singh Johar and Gulab Dutt Tiwari.

Application for Patent No. 281/Del/1984 filed on 30th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

1 Claim

A process for the instant separation of seeds of muskmelon (*Cucumis Melo*, Linn) from its internal mucilaginous ball, comprising stirring the mucilaginous seed-containing part of the fruit with 1 : 1 dilute mineral acid (sulphuric or hydrochloric acid) for 2 minutes followed by washing the whole mass with plenty of water with hand-rubbing on a wide-hole sieve whereby the mucilage is washed away and a neat and clean mass of seeds is left over.

Compl. Specn. 5 pages.

CLASS : 129 G.

160284

Int. Cl. : C 23 f-9/02.

"A COMPOSITION FOR USE AS A WELL SERVICING FLUID".

Applicant : NL INDUSTRIES, INC., a corporation organised under the laws of New Jersey, U.S.A., of 1230 Avenue of the Americas, New York, New York 10020, U.S.A.

Inventor : JOHN JERALD AUGSBURGER and ROY KEITH DARLINGTONOF.

Application for Patent No. 301/Del/1984 filed on 5th April, 1984.

11 Claims

A composition for use as well servicing fluid comprising an aqueous medium and a corrosion inhibiting amount of a mixture of (1) a sulfur compound of the kind described herein wherein the oxidation state of the sulfur is zero or less and (2) a reducing sugar of the kind described herein, said mixture being generally uniformly dispersed in said aqueous medium.

Compl. Specn. 12 pages..

Drg. 1 sheet.

CLASS : 32F₂ (b).

160285

Int. Cl. : C07d 55/36.

"AN IMPROVED PROCESS FOR THE PREPARATION OF PURE CYANURIC ACID".

Applicant : CHEMIE LINZ AKTIENGESELLSCHAFT, an Austrian Body Corporate, of St. Peter-Strasse 25, 4020 Linz, Austria.

Inventor : Friedrich Lunzer & Alfred Garber.

Application for Patent No. 308/Del/1984 filed on 9th April, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

8 Claims

An improved process for the preparation of pure cyanuric acid by hydrolysis of melamine, in particular crude and waste melamine which may contain ammeline and ammelide, at reaction temperature of 160-200°C and under the elevated pressure, by means of 3 to 3.6 moles of sulfuric acid per mole of melamine, addition of water with cooling of the reaction mixture to room temperature, and isolating and purifying in any known manner the product obtained in solid form in the reaction mixture, characterised in that the melamine in the form of an aqueous suspension is mixed with 55 to 96% strength sulfuric acid, the amount of water introduced into the reaction mixture with the sulfuric acid and the melamine suspension being such that 1.1 to 3.5 parts by weight of water are added per part by weight of melamine, the reaction is carried out at a pressure of 2 to 10 bar and the reaction temperature is regulated via temperature-controlled and/or pressure-controlled or continuous evaporation of some of the water.

Compl. specn. 12 pages.

CLASS : 85k, c.

160286

Int. Cl. : F23k 3/02.

"A PNEUMATIC TRANSPORT AND DISTRIBUTION APPARATUS FOR DISTRIBUTION OF GAS ENTRAINED PARTICLES".

Applicant : ARMCO INC. AND THE BABCOCK & WILCOX COMPANY of 703 Curtis St., Middletown, Ohio 45043, U.S.A., a corporation incorporated in the State of Ohio, U.S.A., and 1010 Common Street, P.O. Box 60035, New Orleans, Louisiana 70160, U.S.A. a corporation incorporated in the State of Delaware, U.S.A., respectively.

Inventor : GEORGE HENRY WEIDMAN AND WILLIAM CARL WOLFE.

Application for Patent No. 323/Del/84 filed on 16th April, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

A pneumatic transport and distribution apparatus comprising at least one distributor, inlet means extending axially from the base of said distributor for passing gas entrained particles through said distributor, a vertically extending conduit means connected to said inlet means for flowing gas entrained particles to said inlet means for flowing gas entrained particles to said inlet at least a portion of said conduit means being of a non-circular inner cross-section for preventing spiralling of the particles as they emanate from said inlet to said distributor and a plurality of outlet means extending radially outwardly from the side wall or walls of said distributor.

Compl. Specn. 15 pages.

Drg. 1 sheet.

CLASS : 103.

160287

Int. Cl. : C 23 F-15/00.

"METHOD OF BONDING POLYURETHANE TO METALS TO RESIST CAVITATION EROSION".

Applicant : BHARAT HEAVY ELECTRICALS LIMITED HAVING ITS REGISTERED OFFICE AT 18-20 KASTURBA GANDHI MARG, NEW DELHI-110 001, INDIA, AN INDIAN BODY CORPORATE.

Inventors : BALBIR SINGH MANN, PUTHENMA-DONE RAMA IYER KRISHNAMOORTHY.

Application for Patent No 358/Del/1984 filed on the 27th April, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

An improved method of bonding viscoelastic material to a metal surface which comprises applying a layer or a monomeric viscoelastic material in liquid form on the surface of the metal having depressions or holes provided on the surface or applying on an intermediate metallic element having such depressions or holes, fixed on the metal surface, followed by curing the said monomer in situ by heating allowing it to set and thereafter coiling the said cured material thereby to get the polymeric material anchored on said metal surface or intermediate element.

Compl. Specn. 7 pages.

CLASS : 179 A

160288

Int. Cl. : B 65d 17/22, 17/24

99 B

23 B

E

CONTAINER

Applicant : ESSELTE PAC AKTIEBOLAG, A SWEDISH JOINT STOCK COMPANY, OF VEDDESTAVAGEN 7-9, S-175 62 JARFALLA, SWEDEN.

Inventor : INGEMAR BOGREN.

Application for Patent No. 403/Del/84 filed on the 14th May, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

7 Claims

A container made of a plane punched out blank (6) having a base material (3) of cardboard or a similar stiff material which at the inner surface of the container to be manufactured has a layer (5) of a weldable material of the kind such as herein defined, and which is joined to a sleeve (1) closed at both ends (2) characterised in that the sleeve (1) is joined edge to edge and is kept together under sealed conditions by a joining strip (7) extending along the entire butt joint (8) and attached to the weldable layer (5) at the inner surface of the container sleeve (1), and in that the container has a tear opening means (18) extending round the container sleeve (1), which tear opening means is formed by two punch lines (11) extending partly through the cardboard material (3) to a depth at slight distance spaced from the inner layer of said weldable material (5) and in that the inner layer of said weldable material (5) is completely cut through along two cut lines (11) provided in the area between the two punch lines (10) of the base material (3) and extending a slight distance into said base material (3) and in that the base material (3) with the weldable inner layer (5) at one edge has a projecting ear (12) which is contacting the outer surface of the container sleeve adjacent the longitudinal joint (8) and which provides a grab tongue (12) for making it possible to tear open the container.

(Complete specification 11 pages)

(Drawing sheets 3)

CLASS : 32 F₂(a)

160289

Int. Cl. : co 7d 51/18

"AN IMPROVED PROCESS FOR PREPARING 4-KETO-9-METHYL-PHENAZINE".

Applicant : LATVIISKY GOSUDARSTVENNY UNIVERSITET IMENI PETRA STRUCHKI, OF BULVAR RAINISA, 10, RIGA, U.S.S.R. A BODY CORPORATE ORGANISED UNDER THE LAWS OF U.S.S.R.

Inventor : ANDREI KHUGOVICH ZHAGARS, VOLDEMAR YAKOVLEVICH GRINSHTEIN & NIKOLAI BORISOVICH NAVAK.

Applicant for Patent No. 428/Del/84 filed on 22nd May, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

An improved process for preparing 4-keto-9 methyl-phenazine comprising condensation of pyrocatechol with o-phenyl-leveldiamine, separating phenazine from the reaction mixture in the presence of an oxide, methylation thereof with dimethylsulphate followed by photochemical oxidation of the resulting 9-methylphenazinium methylsulphate and isolation of the final product characterised in that the said phenazine is separated from the reaction mixture by extraction of the latter with an organic solvent in the presence of activated charcoal and an oxidizing agent lead oxide PbO₂; after methylation of said phenazine with said dimethylsulphate, and maintaining the reaction mixture at a temperature of from 0 to 10°C, photochemical oxidation is then effected of the thus prepared methylulfate of said 9-methyl phenazinium by ultraviolet illumination for no more than 3 hours whereupon a medium is brought to pH 8.5 to 9.5 and illuminated for another 3 to 5 hours whereafter the final product is isolated.

(Complete specification 11 pages)

CLASS : 182C

160290

56C.

Int. Cl. : C 13 f — 1/04.

"METHOD OF SEPARATING SOLID AND LIQUID MATERIAL IN A SLURRY".

Applicant : FABCON INCORPORATED, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF OHIO, UNITED STATES OF AMERICA, OF 963 MISSION STREET, SUITE 730, SAN FRANCISCO, CALIFORNIA 94103, UNITED STATES OF AMERICA.

Inventor : JOSEPH CHRISTOPHE VICTOR DUCCASSE.

Application for patent No. 446/Del/84 filed on 31st May, 1984 (Ante-dated to 23-10-1980) Divided out of application No. 771/Del/80 dated 23rd October, 1980.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

7 Claims

A method of separating solid and liquid material in a slurry thereof such as sugar crystals from molasses in massecuite comprising the steps of continuously depositing said slurry on a moving liquid pervious member to form a slurry layer thereon; maintaining a pressure differential across said slurry layer with the pressure above said slurry layer being in excess of the pressure beneath said slurry layer in order to cause liquid to flow through said liquid pervious member so that the liquid content of said slurry layer becomes progressively lower as said layer is carried on said moving liquid pervious member; directing a stream of gas at said slurry

layer at a point where it consists essentially of solids to entrain said solids and remove them from said liquid pervious member; separating said entrained solids from said gas stream; and directing said gas stream after separation of said solids therefrom to said slurry layer on said liquid pervious member at the upper surface thereof to at least partially contribute to said pressure differential, and to purge said slurry of liquid and dry remaining solids that have already been purged of liquid.

(Compete specification 19 pages Drawings 4 sheets)

CLASS : 201D. 160291

Int. Class : C O 2 C-5/10.

"A RESPIROMETER FOR TESTING OF WASTE WATER SAMPLES".

Applicant : THE DIRECTOR, THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY, PATIALA, INDIA, AND RAJ PAUL GARG, AN INDIAN NATIONAL C/O. THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY, PATIALA, INDIA BOTH INDIAN NATIONALS.

Inventor : RAJ PAUL GARG.

Application for Patent No. 678/Del/84 filed on 25th August, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

9 claims

A respirometer for testing of waste water samples to determine the biochemical oxygen demand comprising a chamber adapted to contain a waste water sample therein, said chamber comprising a base plate and cover plate with a wall surface or surfaces provided therebetween, said wall surface or surfaces form from membrane permeable to oxygen, means provided with said chamber for causing an agitation of the waste water sample, openings provided with said chamber for allowing an introduction of a thermometer and dissolved oxygen probe.

(Complete specification 11 pages. Drg. 1 sheet).

CLASS : 39 C and 40 B 160292

Int. Class : C 01 c - 1/00.

"PROCESS FOR PRODUCING BLOCK OF GRANULAR IRON-OXIDE PROMOTED CATALYST FOR THE SYNTHESIS OF AMMONIA."

Applicants : IGOR IOSIFOVICH PODOLSKY, of Komsomolsky prospekt, 25, kv. 63 Moscow, USSR; VIKTOR JURIEVICH ZOZULYA, of ulitsa Krasnoyarskaya, 6, korpus 9, kv. 1377, Moscow, USSR; ARKADY MEFODEVICH ALEXEEV, of ulitsa Pervomaiskaya, 74, kv. 60, Moscow, USSR; LEON DMITRIYEVICH KUZNETSOV, of prospekt Vernadskogo, 38a, kv. 37, Moscow, USSR; POLINA DAVYDOVNA RABINA, of prospekt Vernadskogo, 113, kv. 58, Moscow, USSR; STANISLAV PETROVICH SERGEEV, of ulitsa Let-chika Badushkina, 33, korpus 1, kv. 91, Moscow, USSR; EKATERINA YAKOVLEVNA MALAKHOVA, of ulitsa Yablochkova, 35, kv. 91, Moscow, USSR; administrator and wife of the deceased AFANASY IVANOVICH MALAKHOV; BORIS ISAEVICH LURIE, of ulitsa Komsomolskaya, 33, kv. 12, poselok Pervomaisky raion, Tufskaya oblast, USSR; VLADIMIR MOISEVICH KUXO, of ulitsa Sovetskaya, 32, kv. 174, Vidnoe, Moskovskaya oblast, USSR; TAMARA ALEXANDROVNA, of ulitsa Novaya, 7, kv. 9, Vidnoe, Moskovskaya oblast, USSR; VLADIMIR FEDOROVICH OLISOV, of prospekt Leninskogo Komsomola, 37, kv. 42, 4-137GI/87

Vidnoe, Moskovskaya oblast, USSR; RUSLAN MIKHAILOVICH TOTOEV, of prospekt Leninskogo Komsomola, 35, kv. 155, Vidnoe, Moskovskaya oblast, USSR; BORIS IOSIFOVICH SAPOZHNIKOV, of ulitsa Shepilovskaya, 5, kv. 178, Moscow, USSR; VIKTOR YAKOVLEVICH KONDAUROV, of prospekt Leninskogo Komsomola, 37, kv. 83, Moskovskaya oblast, USSR and IGOR VAKOLEVICH KREINDEL, of prospekt Leninskogo Komsomola, 37, kv. 3, Moskovskaya oblast, USSR, all U.S.S.R. CITIZENS.

Inventors : Applicants are the inventors.

Application for Patent No. : 716/DEL/1984 filed on 12 Sep. 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

Two CLAIMS

A process for producing a block of a granular iron-oxide promoted catalyst for the synthesis of ammonia comprising mixing a granular iron-oxide promoted catalyst with an aqueous solution of an alkali metal aluminate having density of from 1.49 to 1.6 g/cm³ and with at least one of the fillers : fines of a granular iron-oxide promoted catalyst with a particle size of 0.01 to 0.5 an argillaceous mineral, a product of a heat-treatment of an argillaceous mineral, shaping the resulting catalytical mass with insertion of reinforcing members such as herein described thereinto, heat-treatment of the shaped catalytical mass at a temperature within the range from 300 to 600°C; said components being used in the following properties, per cent by mass :

aqueous solution of an alkali metal aluminate with a density of 1.49-1.6 g/cm ³ (as calculated for dry solids)	3.0-6.0
reinforcing members	0.5-1.0

(COMPLETE SPECIFICATIONS 20 PAGES)

CLASS : 85 K & 176 F. 160293

Int. Class : F22b 37/00.

"STEAM GENERATOR OR BOILER HAVING FLUIDIZED COMBUSTION BED".

Applicant : BHARAT HEAVY ELECTRICALS LIMITED, 10-20 Kasturba Gandhi Marg, New Delhi-110001.

Inventors : MADRASA ROWTHER LATHEFF, VADAMALAYAN MALARKKAN KARUTHAN MALARKKAN, KARUKKAMPALAYAM MUTHUSAMI SELIAKUMAR & AYACHITA VENKANNACHAR VASUDEVA MURTHY.

Application for patent No. : 16/Del84 filed on 5th January, 84

Compl. specn. left on 11th February, 1985

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

A steam boiler or generator having a fluidized combustion bed furnace comprising an outer shell containing water, an inner shell in which the fluidized combustion bed is provided, a wind box for supplying air to said bed characterized in that said wind box has a front compartment and a rear compartment with separate control means for supplying compressed air to a distributor plate of the fluidized bed through the said two compartments and pipes leading through the said compartments for supplying coal or other fuel to the fluidized bed.

Provisional specification 6 pages

Compl. specn. 8 pages

Drg. 1 sheet

CLASS : 85K & 176F.

160294

Int. Class : F22b 37/00.

"AN IMPROVED BED EVAPORATOR FOR STEAM BOILERS HAVING FLUIDIZED COMBUSTION BED FURNACES".

Applicant : BHARAT HEAVY ELECTRICALS LIMITED, 18-20 KASTURBA GANDHI MARG, NEW DELHI-110001.

Inventors : VADAMALAYAN MALARKKAN KARUTHAN MALARKKAN KARUKKAM PALAYAM SELAKUMAR & RENGANAHTAN THIRUNAVUKKARASU.

Application for Patent No. 17/Del/84 filed on 5th January, 1984.

Complete specification left on 11th February, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patents Office Branch, New Delhi-5.

2 claims

An improved bed evaporator for a steam boiler having a fluidized combustion bed furnace, comprising at least two opposed series of evaporator tubes forming the main heat absorbing surface, characterised in that lower inclined portions of the tubes are embedded in the fluidized combustion bed and the vertical or upper portions of the said tubes extend upwardly from the fluidized combustion bed through free board of the said bed, the said tubes having inlet ends for water and outlet ends for water or steam water mixture connected to the tubes being disposed above the distributor plate of the fluidized combustion bed, and the said outlet ends being the upper ends of the vertical portions of the tubes.

(Provisional specification 6 pages).

(Complete specification 8 pages. Drg. 1 sheet).

CLASS : 85K & 176F.

160295.

Int. Class : F22b 37/00.

"AN IMPROVED HEAVY ELECTRICALS LIMITED, 18-20 KASTURBA GANDHI MARG, NEW DELHI-110001.

Inventors : VADAMALAYAN MALARKKAN KARUTHAN MALARKKAN RAHAPPAN RADHAKRISHNAN, SWAMINATHAN RAJARAM, KARUKKA PALAYAM, RENGANATHAN THIRUNAVUKKARASU & PARTHASARATHY VASUDEVAN.

Application for Patent No. 18/Del/84 filed on 5th January, 1984.

Complete specification left on 11th February, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

3 claims

An improved shell boiler with fluidized combustion bed comprising an outer shell with front and rear coverplates, an inner shell enclosing a cylindrical furnace chamber and the fluidized combustion bed, a wind box in the lower part of the inner shell extending from the front side of the boiler and below an air distributor plate of the fluidized combustion bed, characterised in that a chamber is provided near the rear end of the boiler for receiving hot gases from the furnace chamber for reversing the direction of flow of hot gases into smoke tubes placed the outer shell below the level of water in it, the said tubes lead to the front side of the boiler having a second chamber on its front side for again reversing the direction of flow of the hot gases and allowing the gases to pass through further smoke tubes adjacent to the former smoke tubes and lead to the rear of the boiler.

(Provisional specification 5 pages).

(Complete specification 8 pages. Drg. 1 sheet).

CLASS : 85K,

160296

Int. Class : F27b 15/00.

"FLUIDIZED BED COMBUSTOR OR FLUIDIZED COMBUSTION BED FURNACE".

Applicant : BHARAT HEAVY ELECTRICALS LIMITED, 18-20 KASTURBA GANDHI MARG, NEW DELHI-110001.

Inventors : ARYASOMAYAJULA VENKATA JAGANADHA RAO, KARUTHAN MALARKKAN VADAMALAYAN MALARKKAN, MANNAR MUTHUKRISHNAN KARUKKAMPALAYAM MUTHUSAMI SELAKUMAR, SRINIVASAN SRINIVASARAGHAVAN & RENGANATHAN THIRUNAVUKKARASU.

Application for Patent No. 19/Del/84 filed on 5th January, 1984.

Complete specification left on 11th February, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

4 claims

A fluidized bed combustor or fluidized combustion bed furnace comprising a horizontal base plate or distributor plate having a plurality of spaced holes, and a nozzle having a cylindrical passage, fitted in each of the said holes and secured to the said plate at right angles to the plate characterised in that each nozzle in its wall near its upper end, extending outwardly from the said passage and a cap at its upper end, the length of each nozzle being greater than its internal diameter.

(Provisional specification 7 pages).

(Complete specification 9 pages.

Drg. 1 sheet)

CLASS : 85K

160291

Int. Class : F27b 15/00.

"A DEVICE FOR PUSHING BACK ELutriants TO FLUIDIZED COMBUSTION BED FURNACES OF STEAM BOILERS "OR GENERATORS".

Applicant : BHARAT HEAVY ELECTRICALS LIMITED, 18-20 KASTURBA GANDHI MARG, NEW DELHI-110001.

Inventors : KARUTHAN MALARKKAN VADAMALAYAN MALARKKAN & KARUKKAMPALAYAM MUTHUSAMI SELLAKUMAR.

Application for Patent No. 20/Del/84 filed on 5th January, 1984.

Complete specification left on 11th February, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

5 claims

A device for pushing back elutriants to fluidized combustion bed furnaces of shell type steam boilers or generators characterised in that it comprises a header located in a refractory wall at the rear or a fluidized combustion bed, an inlet pipe for supplying compressed air to the header, one or more vertical pipes embedded in the said wall, connected to the header and leading to free board above the fluidized combustion bed, the upper end of each pipe being inclined upwardly at an acute angle to the horizontal plane, the opening at the upper end of the pipe or each pipe forming a nozzle.

(Provisional specification 6 pages).

(Complete specification 10 pages. Dag. 1 sheet.

CLASS : 24 B.

160298

Int. Cl. : F 16 d—51/00.

"DISC BRAKE".

Applicant : SOCIETE ANONYME D.B.A., of Centre Paris Pleyel, 93521 St. Denis Cedex 01, France, a French Company.

Inventors : JEAN CLAUDE MERY.

Application for Patent No. 044/Del/1984 filed on the 17th January, 1984.

Appropriate office for filing opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

3 Claims

Disc brake consisting of a fixed support or yoke provided with at least one lateral web and end arms having transverse guide housings, a rotating brake disc positioned beside said lateral web of the fixed support and covered by at least one of the end arms of the fixed support, a pair of friction pads positioned one on each side of the brake disc and each provided with a lining carrier plate of which at least one end is mounted and guided in a direction parallel to the axis of the brake disc in one of the transverse guide housings, a caliper which, firstly, covers the friction pads and the corresponding portion of the brake disc and secondly, by means of a pin, is mounted on the fixed support so that it is able to move in a direction parallel to the axis of the brake disc under the action of an actuator incorporated in said caliper, also having on the outer side associated with the outer pad, a threaded bolt, whose free end remote from the head of to prevent any undesirable pivoting of the caliper, characterised in that said pin, when viewed in the direction of forward motion, is mounted on said support opposite the rear end portion of the inner friction pad in such a way that its orthogonal projection onto the plane of the brake disc is at least partially in the path of the latter, and taken in the direction of forward motion, downstream of the corresponding guide housing provided in the rear transfer end arm of the fixed support and in that the caliper incorporates on the other side, a removable suspension means cooperating with the rear end portion of the outer lining carrier plate and positioned coaxially with the axis of the pin, further characterised in that a removable suspension means in the form of a second threaded bolt is located in a hole in the nose of the caliper, and inner free end of the second bolt remote from the head of the bolt is screwed into a tapped recess made in the rear end portion of the outer lining carrier plate of the outer pad.

Compl. Specn. 12 pages,

Drgs. 3 sheets,

CLASS : 24 B E.

160299

Int. Cl. : F16d-55/02, 55/224.

"DISC BRAKE".

Applicant : SOCIETE ANONYME D.B.A., a French company, of Centre Paris Pleyel, 93521 Saint-Denis Cedex 01, France.

Inventors : PHILIPPE BEJOT, PIERRE KNUCHEL & JACQUES LAURENT.

Application for Patent No. 82/Del/1984 filed on 30th January, 1984.

Appropriate office for filing opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

Disc brake comprising a disc having an axis of rotation and defining a pair of opposite friction faces, a first and second friction pads, each of said friction pads being disposed adjacent a corresponding one of said friction faces, a fixed support mounted adjacent one of said friction faces and slidably supporting said one friction pad, a caliper, a pair of pins extending parallel to the axis of rotation of the disc for guiding supporting the caliper on said fixed support, the other friction pad being mounted on

said caliper, said fixed support having a pair of circumferentially spaced arms, each of said arms defining bores therewithin for slidably receiving a corresponding one of said pins said caliper including a brake actuator for urging said one friction pad into braking engagement with its corresponding friction face and urging said other friction pad into braking engagement with its corresponding friction face through reaction forces transmitted through said caliper, characterised in that said fixed support further including a pair of radially offset beams interconnecting said arms and defining with the latter an opening accommodating said first friction pad, said beams defining a first structural arrangement for resisting bending of said arms in response to braking forces generated during a brake application and dividing the braking forces between said arms, said caliper including a second structural arrangement for dividing braking forces between said arms during a brake application.

Compl. Specn. 12 pages.

Drgs. 3 sheets,

CLASS : 187 C₃ & 206 B.

160300

Int. Cl. : H 04-7/20

H 04 j-3/00.

"DIGITAL SATELLITE EXCHANGE".

Applicant : COMPAGNIE INDUSTRIELLE DES TELECOMMUNICATIONS CIT-ALCATEL, a French body corporate, of 12, rue de la baume, 75008 Paris, France.

Inventors : ANDRE KACZEROWSKI.

Application for Patent No. 108/Del/1984 filed on the 16th February, 1984.

Appropriate office for filing opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

A digital satellite exchange for connecting analog and digital subscriber lines, comprising a digital control unit, a plurality of subscriber line digital concentrators of one or more of the following types :

- local analog subscriber line digital concentrator,
- remote analog subscriber line digital concentrator,
- local, digital subscriber line digital concentrator,
- remote digital subscriber line digital concentrator,
- remote analog/digital subscriber line digital concentrator type,

a respective multiplex line connecting each said digital concentrator to the control unit, said control unit being connected by a further multiplex line to a digital switching exchange.

Compl. Specn. 21 pages.

Drgs. 6 sheets.

CLASS : 203

160301

Int. Cl. : B65h-77/00.

"THERMOPLASTIC FIBROUS REINFORCEMENT FOR USE IN REINFORCING A MATRIX MATERIAL".

Applicant : BENT PAGH SPERLING, of Svanavej 3, DK-2990 Nivas, Denmark, of Danish nationality.

Inventors : KURT BIRKELUND PEDERSEN.

Application for Patent No. 132/Del/1984 filed on 14th February, 1984.

Appropriate office for filing opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

6 Claims

Thermoplastic fibrous reinforcement for use in reinforcing a matrix material of the kind such as herein defined, characterised in that said fibrous reinforcement comprises a base layer of thermoplastic material weld bonded to a surface layer of thermoplastic material, said surface layer of

the reinforcement being weld bonded to an outer layer of hard mineral particles of the kind such as herein defined, said hard mineral particles being partially embedded in said surface layer, said fibrous reinforcement being in prestretched condition and said particles embedded in the surface layer being generally close to the base layer which said base layer is free of said particles.

Compl. Specn. 11 pages.

Drg. 1 sheet.

CLASS : 24 D 1 E.

160302

Int. Cl. : B60t-11/00.

"SPRING FORCE APPLIED AND FLUID PRESSURE RELEASABLE TENSIONAL FORCE ACTUATORS".

Applicant : BENDIX LIMITED, a British company, of Douglas Road, Kingswood, Bristol, BS15 2NL, England.

Inventor : JENNISON Paul.

Application for Patent No. 145/Del/1984 filed on 20th February, 1984.

*Convention date 31-5-1983/83 14971/(United Kingdom).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

3 Claims

A spring force applied and fluid pressure releasable tensional force actuator including a housing and a fluid pressure responsive member sealably moveable therein forming a moveable wall of a fluid pressure chamber a facing wall of the housing forming a fixed wall of said chamber and the pressure responsive member being actuable by a control pressure when applied from a source to a control pressure port of said chamber to counteract the force of a spring captive between the pressure responsive member and an opposite end wall of the housing an output rod or cable connected to said pressure responsive member and extending through said end wall to exert a tensional output force and an externally accessible sealably rotatable screw threaded force opposing member captive in said wall and threadably engaging an elongated screw threaded nut member which is slidable within and abutable with said pressure responsive member for opposing the force of the spring.

Compl. Specn. 5 pages.

Drg. 1 sheet.

CLASS : 48 D 2, & 64 B 1.

160303

Int. Cl. : H 01 b 3/00, 7/02.

"A DEVICE FOR LIMITING THE ELECTRICAL STRESS ARISING FROM THE ELECTRIC FIELD AT A TERMINATION OR JOINT OF A HIGH VOLTAGE CABLE".

Applicant : RAYCHEM GMBH, of Werner-von-Braun-Strasse 11, 8011 Putzbrunn, W. Germany, a company organised according to the laws of the Federal Republic of Germany.

Inventors : 1. BODO BOETTCHER, 2. WERNER RUPPRECHT.

Convention date 8th February, 1983/No. 8303462/(U.K.)

Application for Patent No. 82/Mas/84 filed on 7th February, 1984.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, Madras.

14 Claims

A device for limiting the electrical stress arising from the electric field at a termination or joint of a high voltage cable, the device comprising two layers of electrically semiconductive material, wherein the A. C. electrical impedance characteristics of said layers are different from each other (as hereinbefore defined) with at least one of the layers having a non-linear A. C. electrical impedance, wherein said at least one layer overlaps the other of said layers, and wherein the device is mounted on the cable to enclose at least part of the insulation of the cable that is exposed to effect said termination or joint.

Compl. Specn. 18 pages.

Drg. 1 sheet.

CLASS : 6 B.

160304

Int. Cl. : F 17 c 1/00, 13/00.

"A GAS CONTAINER".

Applicant & Inventor : UDO POSCHINGER, OF NEUESTING, PALSWEISER STRASSE 3n, D-8037 OLCING WEST-GERMANY, A GERMANY NATIONAL.

Application No. 131/Mas/84, filed on the 27th February, 1984.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, Madras.

10 Claims

A gas container, particularly liquid gas container, for instance a propane gas container for domestic and industrial use, characterized in that the walls (2) of the container (1) consist of aluminium or a conventional aluminium alloy, and that in the interior of the container there is disposed a heat conductive filler inlay (4) formed of at least two coils (8, 9) adapted to the nested into each other, the outermost coil (8) being substantially in the shape of a hollow cylinder, the outer diameter of which is dimensioned to conform to the interior diameter of the container space to be filled, and the inner diameters of said coils each being adapted to conform to the respective outer diameter of the respective immediately adjacent inner coil (9).

(Complete specn. 15 pages.

Drg. 3 sheets

CLASS : 32E.

160305.

Int. Cl. : C 08 g 30/00.

A PROCESS FOR PREPARING ADVANCED EPOXY RESINS EMPLOYING TETRAHYDROCARBYL PHOSPHONIUM SALTS AS CATALYSTS.

Applicant : THE DOW CHEMICAL COMPANY, of 2030 Dow Center, Abbott Road, Midland, Michigan 48640, U.S.A. a corporation organized and existing under the laws of the State of Delaware, U.S.A.

Inventors : GEORGE A. DOORAKIAN, MARSHA A. PAUL.

Application No. 154/MAS/84 filed 12th March 1984.

Appropriate office for opposition preceding (Rule 4, Patent Rule, 1972) Patent Office, Madras Branch.

5 Claims

A process for preparing an advanced epoxy resin by reacting (a) a compound bearing an average of more than one vicinal epoxide group per molecule with (b) a polyhydric phenol or thiophenol, in the presence of a catalytic amount of a tetrahydrocarbyl phosphonium salt, characterized in that the reaction and exotherm temperature does not exceed 175°C and the reaction medium is essentially anhydrous as herein defined.

(Complete Specification 39 Pages.

Drgs. 1 Sheet)

CLASS : 116C.

160306.

Int. Cl. : B 66 b 1/00.

ELEVATOR DRIVING APPARATUS.

Applicant : MITSUBISHI DENKI KABUSHIKI KAISHA, of 2-3, Marunouchi 2-Chome, Chiyodaku, Tokyo, Japan, a Juridical person organized and existing under the laws of Japan.

Inventors : MASAMI NOMURA MASUMI KANBE.

Application No. 163/MAS/84 filed 13th March 1984.

Appropriate office for opposition preceding (Rule 4, Patent Rule, 1972) Patent Office, Madras Branch.

7 Claims

An elevator driving apparatus comprising :

a hoist for winding and rewinding a suspension member for supporting an elevator cage so as to raise and lower it;

an electric motor for driving said hoist, characterized in that said elevator driving apparatus further comprises :

control means connected to a three-phase A.C. power source for energizing said electric motor to raise and lower said elevator cage, and selectively connecting said electric motor to either a single-phase A.C. power source obtained by rendering one phase of the three-phase A.C. power source nonconductive or the three-phase A.C. power source to raise and lower said elevator cage, said control means having at least two switching means inserted between at least two-phase of the three-phase A.C. power source and said electric motor, one of said switching means being a first means for turning conductive and nonconductive and the other being a second means for changing to be gradually conductive between a conductive state and a nonconductive state.

(Complete Specification 18 Pages.

Drgs. 3 Sheets)

CLASS : 39 C & 40 B.

160307.

Int. Cl. : C 01 e 1/00.

B 01 j 11/00.

"IMPROVED CATALYSTS FOR USE IN AMMONIA PRODUCTION".

Applicant : THE BRITISH PETROLEUM COMPANY p.l.c. a British company, of Britannic House, Moor Lane, London, EC 2Y 9 BU, England.

Inventors : JOHN JAMES MCCARROLL, 2. STEPHEN ROBERT TENNISON, 3. NICHOLAS-PHILIP WILKINSON.

Application for Patent No. 175/Mas/84 filed on 17th March, 1984.

Convention date on 18th March 1983/8307612/(Great Britain).

Appropriate office for opposition preceding (Rule 4, Patent Rule, 1972) Patent Office, Madras Branch.

14 Claims

A process for the preparation of a catalyst suitable for the production of ammonia which catalyst contains ruthenium, barium and an alkaline metal on a carbon support characterised in that the carbon support is impregnated with a solution of a halogen-containing compound of ruthenium, the said ruthenium compound is reduced to the metal with hydrogen and as promoters, a water stable salt of an alkali metal and water stable compound of barium are deposited thereon by known means.

(Complete Specification 18 Pages.

No drawing)

CLASS : 32 A 2.

160308.

Int. Cl. : C 07 c 49/68.

A PROCESS FOR PRODUCING ANTHRAQUINONE BY DECOMPOSITION OF COMPLEXES OF ORTHOBENZOYL-BENZOIC ACID, HYDROGEN FLOURIDE AND BORON TRIFLUORIDE.

Applicant : ATOCHEM of 12/16 allée des Vosges, Courbevoie, Hauts-de-Seine, France.

Inventor : MICHEL DEVIC.

Application No 200/MAS/84 filed 26th March 1984.

Appropriate office for opposition preceding (Rule 4, Patent Rule, 1972) Patent Office, Madras Branch.

5 Claims

A process for producing anthraquinone by decomposition of a complex of orthobenzoyl-benzoic acid, hydrogen flouride and boron trifluoride of the general formula given in Fig. 2 of the accompanying drawing :

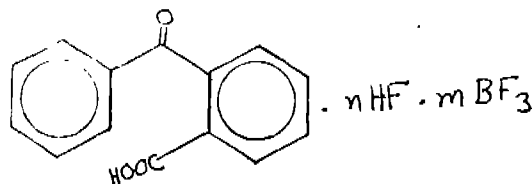


Fig. 2

in which n and m are from 1 to 6; which process comprises subjecting the said complex to the action of oleum or sulphuric acid in a concentration of at least equal to 96% by weight of sulphuric acid, at a temperature of 100°C to 180°C and precipitating anthraquinone by diluting with water.

(Complete Specification 8 Pages.

Drgs. 2 Sheets)

CLASS : 85C, 85I, R. & 97A.

160309.

Int. Cl. : H 05 b 7/18.

"AN APPARATUS FOR EFFECTING PRESSURE-TIGHT CONNECTION OF A PLASMA GENERATOR TO A REACTOR".

Applicant : SKF STEEL ENGINEERING AB, of P.O. Box 202, -813 00 BOFORS, SWEDEN, a Swedish Company.

Inventors : 1. GUNNAR ASTNER, 2. ORJAN WESTERGREN, 3. JAN THORNBLOM.

Application for Patent No. 218/Mas/84, filed on 30th March, 1984.

Appropriate Office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

13 Claims.

Apparatus for effecting rapid, reliable and risk-free pressure-tight connection of a plasma generator to a reactor comprising first electrical contact means arranged on the plasma generator; stationary electrical contact means for connection to said first contact means; movable means, on a path fixed relative to the reactor, for moving the plasma generator towards or away from the reactor; sealing elements arranged on the reactor and plasma generator cooperating to seal the reactor from its surroundings when the plasma generator is in a partially installed sealing or a fully installed operating position; and remote controlled means for locking the generator to the reactor in its operating position and at the same time connecting the plasma generator to the return conductor to the current source.

(Complete Specification 11 Pages.

Drawings 1 Sheet)

CLASS : 69 A, B, D.

160130.

Int. Cl. : H 02 h 3/00.

STATIC TYPE SWITCH DISCONNECT CIRCUIT FOR TRIPPING OF CIRCUIT BREAKER IN POWER LINES.

Applicant : MITSUBISHI DENKI KABUSHIKI KAISHA OF 2-3, MARUNOUCHI, 2-CHOME, CHIYODAKU, TOKYO, JAPAN, A JURIDICAL PERSON ORGANIZED AND EXISTING UNDER THE LAWS OF JAPAN.

Inventor : MEMORU YAGISAWA.

Application No. 251/MAS/84, filed 10th April. 1984.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, Madras.

4 Claims.

A static type switch discontnet circuit for tripping of circuit breakers in power lines comprising :

trip means for opening said circuit breaker switches;

a switching circuit including a switching element actuatable to enable said switching circuit to operate said trip means;

an overcurrent sensing device for detecting excessive current in the power lines;

a timing unit operated by an output of said sensing device responsive to an overcurrent in the power lines to supply a first input to activate said switching element after a predetermined time delay;

a quick disconnect unit operated by another output of said sensing device responsive to a short condition in the power lines to supply a second input to activate said switching element;

a switch unit connected between said quick disconnect unit and said switching element and operable responsive to a closure signal from said circuit breaker switches to close for a preset time period; and

means connecting said circuit breaker switches to said switch unit for transmission of said closure signal so that said quick disconnect unit is operative to activate said switching element responsive to a short condition only during said preset period.

Compl. specn. 11 pages.

Drg. 3 sheets

CLASS : 92 D, H, J

160311

Int. Cl. A 23 b 9/00.

A PROCESS FOR PREPARING WHITE TRANSLUCENT CRYSTAL RICE.

Applicant and Inventor : PARAMASIVAM PILLAIYAR, DEPUTY MANAGER (TECH), PADDY PROCESSING RESEARCH CENTRE, (TAMIL NADU AGRICULTURAL UNIVERSITY), TIRUVARUR 610 001, TAMIL NADU, INDIA, INDIAN NATIONAL.

Application No. 560/Mas/84 filed on 1st August, 1984.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch

7 Claims

A process for the preparation of white translucent crystal rice comprising the steps of selecting paddy of the nature such as herein described; fully soaking the paddy in water not exceeding a temperature of 65°C such that the kernel moisture is not less than 25%; parboiling the soaked paddy for substantially 5 to 15 minutes at a temperature 70°C to 100°C predetermined by the gelatinization temperature of the paddy; partly drying the paddy immediately after parboiling to a moisture content of substantially 18% followed by tempering for 4 to 8 hours and further drying of the same thereafter at 60°C–80°C until the kernel moisture content is reduced to substantially 14%; cleaning the dried paddy thereafter and shelling/milling the cleaned paddy before polishing the same in stages to substantially 5% to 7% of bran removal; and removing the adherent bran from the polished paddy before glazing the same to a glossy finish by known means.

Compl. specn. 7 pages.

Drg. Nil

CLASS : 32 F 1 & 32 F 3 d

160312

Int. Cl. : C 07 c 43/00, & 143/00.

PROCESS FOR THE PREPARATION OF ALPHASULFONYLOXYKETONE ACETALS.

Applicant : SYNTEX PHARMACEUTICALS INTERNATIONAL LIMITED, A BERMUDA CORPORATION, OF CORNER HOUSE, CHURCH STREET, HAMILTON, BERMUDA.

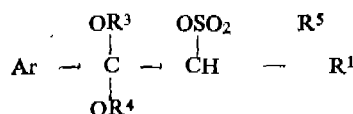
Inventors : 1. CENICHI TSUCHIHASHI, 2. SHUICHI MITAMURA, 3. KOUJI KITAJIMA.

Application for Patent No. 569/Mas/84 filed on 4th August, 1984.

Division of Application No. 1023/Cal/83 dated 10th September, 1981 (155-107)

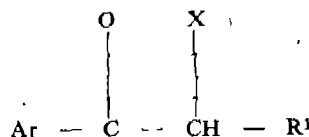
2 Claims

A process for preparing alpha sulfonyloxyketone acetals of Formula II

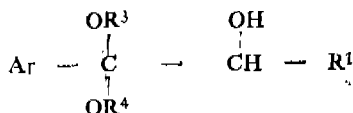


wherein Ar represents an aromatic group and R¹ represents hydrogen or a saturated aliphatic group, or Ar and R¹ may form a condensed ring together with the carbon atom to which they are bonded, R³ and R⁴, independently from each other represent an alkyl group, or taken together represent an alkylene group, and R⁵ represents a substituted or unsubstituted alkyl group or an aromatic group or Ar represents the group R⁵-Ar¹ or a thienyl group, in which Ar represents a phenylene or naphthylene group and R⁵ represents a hydrogen atom, a halogen atom, a lower alkyl group, a lower alkoxy group, a lower haloalkoxy group, a lower alkanoylamino group, an oxoisindolinyl group, or a phenyl group, which process comprises the steps of :

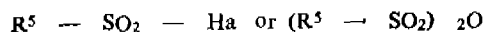
(a) reacting a compound of Formula V



wherein X is a halogen atom, Ar and R¹ are as defined above, with alkali metal alkoxide(s) corresponding to an alcohol of formula A(OH)_n wherein A is a C1-4 alkyl group when n is 1 or a C2-6 alkylene group when n is 2, in the presence of an appropriate alcohol of Formula A(OH)_n wherein n and A are as defined above, to obtain a compound of Formula VI



wherein Ar and R¹, R³ and R⁴ are as defined above, and (b) reacting the said compound of Formula VI obtained from step (a) with a compound of Formula



wherein R⁵ is defined as above and Hal is a halogen atom.

Complete specification 53 pages.

Drg. 1 sheet

CLASS : 32 E.

160313

Int. Cl. C 07 c 43/00.

"A PROCESS FOR PRODUCING POLYPHENYLENE ETHER HAVING IMIDE LINKING GROUPS".

Applicant : NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WASHINGTON D.C. 20546, U.S.A.

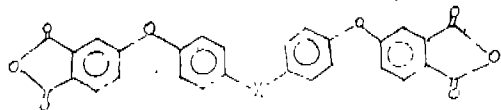
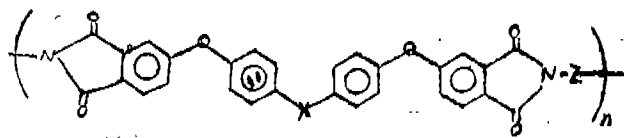
Inventors : TERRY LEE ST. CLAIR, HAROLD LAVID BURKS.

Application No. 116/Mas/84 filed 21st February, 1984.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

9 Claims

A process for producing polyphenylene ether having imide linking groups of formula 4 of the accompanying drawings where in z is of formula 5 of the accompanying drawings, comprising :



Formula 4

Formula 5

Formula 6

mixing 1.00 part by mole of a dianhydride containing phenylether moieties of formula 4 of the accompanying drawings, wherein X is S, SO_2 , O, $C=O$, or CH_2 , with 0.95 to 1.00 part by mole of an aromatic diamine of formula 7 of the accompanying drawings,

wherein m is between 1 and 10 and Y is S, SO_2 , O, $C=O$ or CH_2 ;

in a solvent selected from the group of aliphatic ether solvents consisting of bis (2-methoxyethyl) ether, tetrahydrofuran, and dioxane at atmospheric pressure and at a temperature from 10°C to 30°C ;

Stirring for one to two hours;

pouring the resulting viscous solution into a non-solvent selected from the group consisting of water, methanol and heptane, to precipitate an intermediate polymer having amide-acid linking unit;

filtering to recover the intermediate polymer;

drying the recovered intermediate polymer for 12 to 18 hours at ambient conditions and then for one-half to two and one-half hours at 90°C to 110°C and atmospheric pressure; and

imidizing the amide-acid units by subjecting the polymer to temperatures of 150°C to 250°C for one to five hours, such that the temperature exceeds the final polymer glass transition temperature, to yield a polyphenylene ether having imide linking groups in a fused glass state.

Compl. Specn. 14 pages,

Drg. 2 sheets.

CLASS : 167 H.

160314

Int. Cl. : B 07 b 1/00.

"A VIBRATORY SIFTER SCREEN UNIT".

Applicant : KINERGY CORPORATION OF THE STATE OF KENTUCKY U.S.A. OF 4821, JENNINGS LANE, LOUISVILLE, KENTUCKY 40218. U.S.A.

Inventor : GEORGE D DUMBAUGH,

Application for Patent No. 129/Mas/84 filed on 24th February, 1984.

Convention date on 12th September 1983. No. 436 525. (Canada).

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch,

6 Claims

A vibratory sifter screen unit including a sifter trough and screen structure having an inlet end and an outlet end downstream from the inlet spaced apart spring isolators supporting the sifter trough and screen structure for free floating motion laterally and axially said outlet end being unsupported for free motion. said screen structure having a crown with its apex extending longitudinally on the axial center line of the structure. a vibratory drive assembly mounted on the structure at the inlet end, said assembly comprising a rotary motor and counterbalance mass mounted in spaced relation ahead of said inlet end on the longitudinal centre line of the screen unit, springs supporting said assembly independently of the sifter trough and screen structure and steel coil drive springs providing an operative connection as herein described between said assembly and the inlet end of the sifter screen unit and comprising the only driving connection therebetween. said motor having an eccentric weight imparting a generally elliptical vibratory motion as hereinbefore described to the unit adjacent the inlet end and exciting said drive springs to develop vibratory motion axially or laterally of the unit. said vibratory motion initially developing an elliptical motion of the sifter screen adjacent to the inlet end and diminishing gradually along the length of the sifter screen to a straight linear axial motion adjacent to the outlet end of the screen structure.

Compl. Specn. 17 pages,

Drg. 1 sheet.

CLASS : 136 C. & 136 F.

160315

Int. Cl. : B 29 d 23/00.

METHOD AND APPARATUS FOR FORMING TUBULAR CLOSED-ENDED ARTICLES OF THERMOFORMABLE POLYMER MATERIAL.

Applicant : METAL BOX P.L.C. A BRITISH COMPANY OF QUEENS HOUSE FERRIBURY ROAD, READING. RG1, 3JH, BERKSHIRE, ENGLAND.

Inventors : 1. DAVID ALLAN DICK 2. RICKWORTH FORTLAND. 3. DESMOND PETER SMITH. 4. GLYN STAINES.

Application for Patent No. 159/Mas/84 filed on 13th March 1984.

Convention date on 14th March. 1983/No. 8306936/ (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

13 Claims

A method of forming a tubular article with a closed end from a thermoformable polymer material, comprising the steps of pre-heating at least a portion of a sheet of the polymer material to a temperature above the glass transition temperature of the polymer but below its melting point, clamping an annular region of the sheet surrounding the said portion, and forcing a punch through the plane of the sheet, centrally within an annular die, with a clearance between the punch and die, so as to draw the heated portion of the sheet into tubular form without exerting compressive stresses on the drawn sheet between the side of the punch and the die, the punch being maintained at a temperature below the glass transition temperature of the polymer, wherein the punch is moved at a speed of at least 1 metre per second to effect the drawing, and wherein the thermoformable polymer material is a crystallisable polymer material, the temperature to which the sheet is pre-heated being below that at which rapid crystallisation of the polymer material begins.

Apparatus for forming a tubular article with a closed end from a thermoformable polymer material, comprising an annular die, means for pre-heating at least a portion of a sheet of the polymer material to a temperature above the glass transition temperature of the polymer but below its melting point, means for clamping around the die an annular region of the sheet surrounding said portion, and a punch movable

centrally through the annular die with a clearance therefrom sufficient to avoid applying compressive stresses to the sheet while drawing the heated portion of the sheet into tubular form, the punch being provided with cooling means for maintaining the temperature of the punch below the glass transition temperature of the polymer, wherein means are provided capable of moving the punch at a speed of at least 1 metre per second to effect the drawing, and wherein said pre-heating means are adapted to pre-heat the sheet to a temperature below that at which rapid crystallisation of the sheet material beings, the polymer material being a crystallisable polymer material.

Compl. Specn. 17 pages.

Drg. 2 sheet.

CLASS : 155 A & E

160316.

Int. Cl. : D 01 b 1/00.

METHOD OF MANUFACTURING FINE JUTE AND JUTE-TYPE YARNS.

Applicant : SO "PERUN" OF 2000 SAMOKOV, BULGARIA, A BULGARIAN COMPANY.

Inventors : (1) BORIS NIKOLOV ILIEV, (2) ANNA HRISTOFOROVA TZONEVA AND (3) LILIYA BORISOVA ILIEVA.

Application No. 168/MAS/84 filed March 15, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

2 Claims

A method for manufacturing fine jute mixed yarns suitable for producing fabrics such as hereinbefore described, comprising : cutting the jute fibres into lengths of 40 to 600 mm, emulsifying and maturing the cut jute fibres in a known way, mixing them with natural end/or synthetic fibres, the proportion of the jute fibres in the mixed fibre being 40% to 90% and converting these mixed fibres into yarns in a conventional manner.

Copl. Specn. 13 pages.

Drg. Nil.

CLASS : 163 B 2.

160317.

Int. Cl. : F 16 C 39/00, 17/00.

APPARATUS FOR AN HYDROSTATIC COMPENSATION OF HYDRAULIC PUMPS AND MOTORS OF GEAR TYPE.

Applicant : HYDROPERFECT INTERNATIONAL HPI OF 26 RUE CONDOREET, 94430 CHENNEVIERES, FRANCE, A FRENCH COMPANY.

Inventor : ROGER LAUMONT.

Application No. 183/MAS/84 filed 20th March 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

6 Claims

An apparatus for hydrostatic compensation of hydraulic pumps and motors of gear type in which two intermeshing gears are mounted on shafts which are supported by bearings or journal-bearings slidable within a cavity of a pump or a motor housing, said pump or motor housing being closed on lateral sides by covers, compensation chambers being provided between the bearings and the covers, wherein said chambers are delimited by grooves respectively provided in face facing the bearing and covers, a part of one side of the grooves provided in the bearings being in alignment with one side of the grooves provided in the corresponding cover, and deformable tightness seals being arranged in said grooves.

Compl. Specn 10 pages.

Drgs. 2 sheet.

CLASS : 39 P.

160318.

Int. Cl. : C 01 f 11/46.

A PROCESS FOR PREPARING CALCIUM SULFATE.

Applicant : PRAYON DEVELOPMENT, SOCIETE ANONYME, A COMPANY ORGANISED UNDER THE LAWS OF BELGIUM, OF RUE JOSEPH WAUTERS 144, ENGIS, BELGIUM.

Inventors : (1) DAVISTER ARMAND LAURENT, (2) DUBREUCQ ANDRE ROBERT AND (3) THIRION FRANCIS ARTHUR.

Application No. 187/MAS/84 filed March 21, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

9 Claims

A process for preparing calcium sulfate by reacting calcium phosphate with a mixture of sulfuric and phosphoric acids, which comprises : (a) reacting calcium phosphate, during a first step, with a mixture of sulfuric and phosphoric acids under following reaction conditions : a temperature from 70 to 100°, a P_2O_5 concentration in the liquid phase from 38 to 50%, a H_2SO_4 concentration in the liquid phase from 0.25 to 2.5%, a solid content in the calcium sulfate pulp between 20 and 38% and a reaction time between 2 and 4 hours, so that the calcium sulfate crystallizes substantially in α -hemihydrate form, recovering the phosphoric acid formed at the end of this first step and a part of this acid being cycled back to react with the calcium phosphate; (b) thereafter, subjecting during a second step, the obtained hemihydrated calcium sulfate to following reaction conditions : a temperature from 40 to 80°C, a P_2O_5 concentration in the liquid phase from 15 to 34%, a H_2SO_4 concentration in the liquid phase between 0.5 and 17.5%, a solid content in the calcium sulfate pulp between 22 and 62% and a reaction time between 4 and 16 hours, so that the hemihydrate α recrystallizes substantially into dihydrate form, and (c) finally contacting, during a third step, the said dihydrate with concentrated sulfuric acid and another part of the produced phosphoric acid extracted at the end of the first step, while agitating the so formed pulp, under following reaction conditions : a temperature between 60 and 100°C, a P_2O_5 concentration in the liquid phase from 15 to 34%, a H_2SO_4 concentration in the liquid phase from 7 to 25%, a solid content between 20 and 34% and a reaction time between 0.5 and 3 hours, so as to transform the dihydrate into a hemihydrate α , anhydrite II or into a mixture of hemihydrate α and anhydrite II, the so obtained calcium sulfate during this third step being subjected to a separation operation to separate a predominant part of the liquid phase which is cycled back to at least one of the preceding steps.

Compl. Specn. 24 pages.

Drg. 1 sheet.

CLASS : 146 C [XXXVIII (2)].

160319.

Int. Cl. : G 01 v 1/22.

DATA TRANSMISSION SYSTEM FOR SEISMIC STREAMERS.

Applicant : GEOPHYSICAL COMPANY OF NORWAY A.S., OF VERITASVEIEN 1, N-1322 HOVIK NORWAY (A NORWEGIAN COMPANY).

Inventor : 1. OTTO BENESTAD, 2. KJELL HATTELAND, 3. PAUL FREDRIKSEN.

Application No. 189/MAS/84, filed on 22nd March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

8 Claims

A system for transmitting information from a plurality of seismic data acquisition means (4) to a central receiver and recording means (3); said system comprising :

a plurality of transmission modules (1), each connected to a respective data acquisition means (4);

a plurality of transmission lines (6, 7) connecting each of said transmission modules (1) to at least one other of said transmission modules in a sequence, at least two of said transmission lines (7) comprising first and second outgoing data transmission lines (7a, 7b) for transmitting information from the central receiver and recording means (3) to the data acquisition means (4), and at least a second two of said transmission lines (6, 7) for transmitting information from the data acquisition means (4) to the central receiver and recording means (3);

each transmission module (1) comprising an outgoing transmission circuit including first and second substantially identical line receiver means (8a, 8b) connected to receive information signals on said first and second outgoing data transmission lines (7a, 7b), respectively; characterized in that each transmission module (1) wherein:

first and second substantially identical information decoder means (10a, 10b) for decoding information signals received at said first and second line receiver means (8a, 8b), respectively,

first and second substantially identical transmitter means (11a, 11b) for transmitting information signals received at said first and second line receiver means (8a, 8b), respectively, to the first and second outgoing data transmission lines (7a, 7b), respectively, in another of said transmitter modules;

transmission line switching means (20a, 20b) responsive to information decoded by said first and second information decoder (10a, 10b) means for selecting one of said first and second transmitter means for transmitting signals to said another transmission module.

Compl. Specn. 16 pages.

Drgs. 3 sheets

CLASS : 4 A4, 40 H & 6 A2

160320

Int. Cl.: B64 d 13/00.

MOLECULAR SIEVE TYPE GAS SEPARATION SYSTEMS.

Applicant: **NORMALAIR-CARRETT (HOLDINGS) LIMITED, WESTLAND WORKS, YEovil, SOMERSET, ENGLAND, A BRITISH COMPANY.**

Inventors: (1) **HAMLIN HUMPHERY ALBERT SAMUEL** (2) **TAYLOR JAMES CORNISH.**

Application No. 220/MAS/84 filed March 30, 1984.

Convention date 31st March, 1983/8308948/United Kingdom.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

3 Claims

A molecular sieve type gas separation system adapted to deliver oxygen-enriched air for breathing by aircrew on aircraft by decreasing the nitrogen content of air fed into the system, comprising

two bed sets each comprising three molecular sieve beds; a supply line for delivering air from an air supply source to the sieve beds;

a respective charge valve connecting a charge inlet port of each sieve bed with the supply line;

a respective vent valve connecting a vent port of each bed with ambient atmospheric pressure or a pressure related thereto;

a respective solenoid operated bleed switching valve connected with the charge and vent valves of each bed and adapted for switching the charge and vent valves between open and closed positions such that when the charge valve is open the vent valve is closed and vice versa;

a sequencer unit connected with the solenoid operated bleed switching valves and adapted to control the solenoid operated bleed switching valves to sequentially switch the charge and vent valves of the beds of each bed set between the open and closed positions such that the open period of a charge valve is equal to the open period of a vent valve and the open periods of the charge and vent valves of one of the beds in a bed overlap the closed periods of the charge and vent valves of the other beds in the bed set, the sequencer unit being further adapted to control the solenoid operated

bleed switching valves to switch the charge and vent valves of the beds of one bed set in synchronisation with the charge and vent valves of the beds of the other bed set but in anti-phase thereto.

Compl. Specn. 16 pages.

Drg. 4 sheets

CLASS : 32-A,

160321

Int. Cl. C 09 b 45/00.

METHOD FOR PRODUCING REACTIVE METAL FORMAZAN BLUE DYE.

Applicant: **SUMITOMO CHEMICAL COMPANY, LTD., OF 15, KITAHAMA-3-CHOME, INAGASHI-KU, OSAKA, JAPAN.**

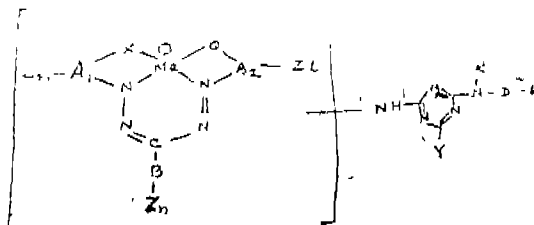
Inventors: 1. **TAKASHI OMURA**, 2. **KATSUMASA OTAKE**, 3. **KANEO YOKOYAMA**, 4. **YASUO TEZUKA.**

Application No. 853/Cal/83 filed July 11, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

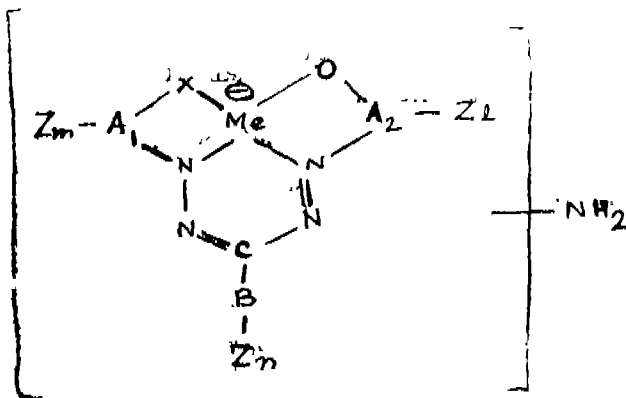
9 claims

A method for producing a compound represented by a free acid of the formula (I), of the accompanying drawings



wherein A_1 and A_2 are independently a substituted or unsubstituted phenylene or naphthylene group, B is a straight or branched alkyl or alkenyl group, a phenyl group, a naphthyl group or a heterocyclic group, the alkyl, alkenyl, phenyl, naphthyl and heterocyclic group being substituted or unsubstituted, Me is an ion of metal identified by an atomic number of 27 to 29, X is -O-

or -CO-, Y is a halogenatom, Z is a group capable of impairing water solubility, each of 1, m and n is 0 or an integer of 1 to 3, provided that the sum of 1, m and n is from 1 to 4, D is a substituted or unsubstituted phenylene or naphthylene group, R is a substituted or unsubstituted lower alkyl group and Q is $-SO_2CH=CH_2$ or $-SO_2CHCH_2L$ in which L is a group capable of being split by the action of alkali, which comprises subjecting a 1,3,5-trihalogeno-s-triazine to condensation in any order with any of a formazan compound of the formula (II),



wherein A_1 , A_2 , B , Me , X , Z , 1, m and n are as defined above, and with compound of the formula (III), wherein D , R and Q are as defined above.

Complete Specn. 51 pages..

Drg. 12 sheets

CLASS : 68-E₁; 164-C

160322

Int. Cl. F 28 b 1/00, 1/02.

EQUIPMENT FOR MECHANICAL CLEANING OF COOLING WATER STREAM FROM A POWER STATION CONDENSER SYSTEM.

Applicant : TAPROGGE GESELLSCHAFT MBH., OF WACHOLDERSTRASSE 7, 4000 DUSSELDORF 31, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. KLAUS-MICHAEL BITZER, 2. KLAUS EIMER, 3. KLAUS GROBE, 4. GEORG MAYER, 5. DIETER FAIZIG.

Application No. 43/Cal/84 filed January 21, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims.

Equipment for the mechanical cleaning of a cooling-water stream through a power-station condenser system comprising a cylindrical sieve housing through which the stream flows in the axial direction, at least one sieve basket enclosed by the housing and having a sieve jacket with a longitudinal axis extending parallel to the housing axis, a sieve basket head at the one end of the jacket, and a supporting base at the other end by which the sieve jacket is attached to the sieve housing, at least one of the components forming the or each sieve basket head and the supporting base being constructed as a sieve, together with a back-flushing system comprising at least one sector-forming partition in the sieve housing starting upstream of the or each basket in the flow direction and extending at least over the basket length, at least one effluent discharge union upstream of the or each sieve bracket, and at least one reverse-flow flap swivelling on a shaft disposed orthogonally to the sieve basket axis or axes, whereby each sector can be isolated from main flow to enable the corresponding sieve basket or baskets or part or parts thereof in that sector to be backflushed and detached debris discharged through the or an effluent discharge union.

Compl. Specn. 25 pages.

Drg. 5 sheets.

CLASS : 85-J.

160323.

Int. Cl. H 05 b 1/00.

ELECTRODE FOR ARC FURNACES.

Applicant : ARC TECHNOLOGIES SYSTEMS LTD. OF BOX 61, GEORGETOWN, GRAND CAYMAN, CAYMAN ISLANDS, BRITISH WEST INDIES.

Inventors : 1. CLAUDIO CONRADTY, 2. DR. DIETER ZOLLNER, 3. DR. INGE LAUTERBACH-DAMMLER, 4. DR. THOMAS TAUBE.

Application No. 95/Cal/84 filed February 9, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

An electrode for arc furnaces, comprising an upper metal-water-cooled electrode holder, which is surrounded by a protective jacket being resistant to temperature variations and mechanical stress and a consumable section, which is connected to the electrode holder by means of threaded nipple characterized in a disk (11, 19) being arranged between the electrode holder (1) and the consumable section (3), said disk covering a lower front plate (16) of the electrode holder to which it is connected said disk consisting of a material of good conductivity which is resistant to thermal and mechanical stress, said disk having a central opening (15) the diameter of which essentially corresponds to the diameter of the threaded nipple (2).

Compl. Specn. 13 pages.

Drg. 2 sheets.

CLASS : 205-L

160324

Int. Cl. : B 60c 9/00.

APPARATUS FOR VULCANIZING A TIRE.

Applicant & Inventor : KAZUMASA SARUMARU OF 8-27 KINMITSU-CHO, ASHIYA 659, JAPAN.

Application No. 100/Cal/84 filed February 10, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

Apparatus for vulcanizing a tire, comprising a pair of generally annular split dies axially movable relative to each other, a pair of generally circular supports surrounded by said dies, said supports including bead seats adapted to engage the axially outer sides of the tire beads so as to form a closed space being adapted to be supplied with a pressure medium and heated, said supports being axially movable relative to each other and to said dies, a plurality of members pivotally mounted on each of said supports adjacent said bead seats, and means for urging said pivotal members into compressive engagement with the axially inner sides of said tire beads.

Compl. specn. 12 pages.

Drgs. 5 sheets

CLASS : 206-E

160325

Int. Cl. : H 03 j 3/10.

TUNING CIRCUIT FOR THE UHF AND VHF RANGES.

Applicant : TELEFUNKEN ELECTRONIC GMBH, OF THERESIENSTR-2, D-7100 HEILBRONN, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. FRANZ HEIGL, 2. JOSEF REHM.

Application No. 356/Cal/84 filed May 24, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

Tuning circuit for the UHF and VHF frequency ranges with a resonance circuit in the form of a lambda half-wave resonance circuit, comprising an alignment coil for the upper frequency band end of the UHF range connected in parallel to a tuning capacitor via a switch to ground, and arranged parallel to the switch is at least one inductance which shifts the resonance frequency of the resonance circuit into the VHF range when the switch is open, characterized in that a further tuning capacitor (14) is connected in series with the inductance (12, 13).

Compl. specn. 13 pages.

Drg. 1 sheet

CLASS : 40-A₂

160326

Int. Cl. : C 07 b 3/00.

IMPROVEMENTS IN OR RELATING TO REACTOR FOR SELECTIVE OXIDATION OF ORGANIC COMPOUNDS.

Applicant : ZAKLADY AZOTOWE IM. FELIKSA DZIERZYNSKIEGO, OF 33-101 TARNOW, POLAND.

Inventors : 1. ANDRZEJ KRZYSZTOFORSKI, 2. JAN REDZI, 3. RYSZARD MARCINKOWSKI, 4. RYSZARD POHORECKI, 5. STANISLAW CIBOROWSKI, 6. BOGUSLAW RYBAK, 7. MAREK POCHWALSKI, 8. ALEKSANDER USZYNSKI, 9. JOZEF GWIZDAK, 10. KONSTANTY MAKAL, 11. MARIAN PACIOREK.

Application No. 357/Cal/84 filed May 25, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

Improvement in or relating to reactor for selective oxidation of organic compounds in liquid state with oxygen containing gases, in form of horizontal cylinder, divided into a number of chambers inside, with pipe distribution system for introduction of oxidation gas to the reaction fluid, the said system being formed by two or more arms of the curvative shape transverse to thereactor axis, matched to the reactor bottom shape and drilled, connected with one, or more lengthwise pipe elements, characteristic by the fact, that each transverse drilled arm, or any distributor cross-section considered as the drilled arm, is fitted out with drills of reciprocal spacing bigger and/or diameter smaller in higher located ends of the arm than in its lower located centre part, the said spacing and/or diameter varying progressively along transverse drilled arm or cross-section considered as drilled arm in such a way, that the oxidation gas flowing rate is in particular identical calculation sections of this arm, or cross-section horizontal projection, equal within at least $\pm 50\%$ preferably $\pm 15\%$.

Compl. specn. 15 pages.

Drgs. 2 sheets

CLASS : 128-K

160327

Int. Cl. : A 61 b 17/00.

HEMOSTATIC CLIP MADE FROM A POLYMERIC MATERIAL.

Applicant : ETHICON, INC. LOCATED SOMERVILLE, NEW JERSEY, UNITED STATES OF AMERICA.

Inventor : 1. STEPHEN JOSEPH FAILLA.

Application No. 365/Cal/84 filed May 28, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A hemostatic clip made from a polymeric material, said clip comprising a pair of leg members connected at their proximal ends, said leg members being adapted to be placed on opposite sides of the vessel to be closed and said clip having an interlocking latch means at the distal ends of said leg members, said latch means interlocking to hold the leg members in a closed position, the improvement comprising means cooperating with said latch means to penetrate connective tissue adjacent the vessel to be closed to insure said latch means interlocks when the leg members are closed about the vessel.

Compl. specn. 13 pages.

Drgs. 4 sheets

CLASS : 80-F

160328

Int. Cl. : B 04 b 5/00.

METHOD AND APPARATUS FOR PNEUMATICALLY EVACUATING CENTRIFUGES.

Applicant : KRAUSS-MAFFEI AKTIENGESellschaft, OF KRAUSS-MAFFEISTRASSE 2, D-8000 MÜNCHEN 50, WEST GERMANY.

Inventor : 1. HANS-JOACHIM TITUS.

Application No. 579/Cal/84 filed August 21, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

Method of pneumatically recovering solids from a centrifuge, in particular a vertical centrifuge, wherein the centrifuged product being peeled from the wall of the rotating centrifuging drum is fed to a discharge pipe passing through the closed centrifuge housing, and wherein a heated drying gas is fed in a primary flow to the centrifuge and in a secondary flow to a drying path connected to the discharge pipe and gliding the mixture of product and gas, characterized in that the drying gas guided in the secondary flow prior to being combined with the mixture of product and gas conveyed through the discharge pipe is converted into a turbulent longitudinal flow substantially concentrically enclosing the discharge pipe as far as its downstream side.

Compl. specn. 17 pages.

Drgs. 3 sheets

CLASS : 63-1

160329

Int. Cl. : H 02 n 11/00.

STATIC VAR GENERATOR HAVING REDUCED HARMONICS.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventor : 1. I. ASZLO GYUGYI.

Application No. 813/Cal/84 filed November 27, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A static VAR generator comprising a transformer having primary windings connected to an AC network and secondary windings having a multitude of voltage taps therein, switching means connected to said secondary windings for connecting reactances to the AC network for regulating reactive power, a first reactance connected to the switching means in parallel with the secondary windings, a plurality of reactances connected to the switching means for connecting each reactance individually to one of said multitude of voltage taps, and a control means connected to said AC network and said switching means for controlling the connection of the reactances to the AC network in response to the reactive power requirements.

Compl. specn. 10 pages.

Drgs. 2 sheets

CLASS : 69-A

160330

Int. Cl. : H 01 h 73/00.

IMPROVEMENTS IN OR RELATING TO MOLDED CASE CIRCUIT BREAKER WITH MOVABLE LOWER ELECTRICAL CONTACT.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors : 1. ROBERT HARBISON FLICK, 2. WALTER KEVIN HUFFMANN.

Application No. 819/Cal/84 filed November 28, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

An electric circuit breaker having an insulating housing and, disposed therein, a contact structure comprising an electrically conductive, elongate, stationary member, an electrically conductive movable contact arm, and means forming a pivotal connection between the contact arm and a first end portion of the stationary member, characterized in that said means forming the pivotal connection comprises an electrically conductive pin member (78) fixedly connected to one on both said movable contact arm (66) and said first end portion of the stationary member (62), at least one concavely curved contact and pivot surface (62G-H) formed on the other of both the movable contact arm and said first end portion and having said pin member (78) in pivotal engagement therewith, and biasing means (68) maintaining said pivotal engagement and producing contact pressure between the conductive pin member and said or each contact surface.

Compl. specn. 33 pages.

Drg. 11 sheets

CLASS : 88 D & 6 B₃

160331

Int. Cl. F 24 F—3/16.

"APPARATUS IN PARTICULAR A REACTOR FOR PURIFYING FLUID BY ADSORPTION".

Applicant : L'AIR LIQUIDE SOCIETE, ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, A FRENCH BODY CORPORATE, OF 75, QUAI D'ORSAY, 75007 PARIS, FRANCE.

Inventor MAURICE BOSQUAIN, MAURICE GRENIER, LEON HAY, PAUL LAPEYRE, JEAN-YVES LEHMAN, PIERRE PETIT, PIERRE SAUTY.

Application for Patent No. 140/Del/84 filed on the 17th February, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

16 Claims

An apparatus in particular a reactor for purifying fluid by adsorption, comprising a casing which has a vertical axis and defines a fluid inlet zone and a fluid outlet zone separated by atleast one annular bed of particles of active material of the kind such as herein described, the or each bed being contained between two metal grates having vertical generatrices said grates being made of corrugated perforated metal sheets having rows of elongated apertures, said apertures being offset from one row to the next by half the pitch of apertures to make the grate rigid either in axial or circumferential direction so that atleast one of the grates is rigid in the axial direction independently of the other grates, and two grates namely the innermost grate and the outermost grate are rigid in the circumferential direction.

Compl. Specn. 21 pages.

Drg 3 sheets.

CLASS : 146 D 3.

160332

Int. Cl. : G 03 g - 15/00.

"A DUEL PATH OPTICAL SENSOR SYSTEM".

Applicant : HUGHES AIRCRAFT COMPANY, A COMPANY ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, HAVING A PRINCIPAL PLACE OF BUSINESS AT 200 NORTH SEPULVEDA, EI SEGUNDO, CALIFORNIA 90245 UNITED STATES OF AMERICA.

Inventor : WALDO W. KLIEVER.

Application for Patent No. 157/Del/84 filed on 22th February, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

6 Claims

A dual path optical sensor system comprising :

(a) detector means having a light sensitive surface forming the input and an output terminal for receiving a light signal at said input surface and for converting the light signal into an electrical signal for transmission thereof from said output terminal,

(b) a rotatable polygon scanner connected to said detector means and having a plurality of substantially equal reflective facets thereon;

(c) means connected to said scanner for rotating said scanner at a constant speed;

(d) first optical means located between a first light source said scanner for receiving a first light beam from said first light source and for directing the first light beam on said facets;

(e) second optical means located adjacent said scanner and between said first optical means and said detector for receiving the first light beam as it is reflected from said facets and for directing the first light beam onto said input of said detector means;

(f) third optical means located between a second light source and said scanner for receiving a second light beam from said second light source and for directing the second light beam onto said facets, said first and third optical means being mutually spaced apart so that, when the first light beam is impinging directly on one of said facets, the second light beam is impinging on the mid-point between two adjacent other ones of said facets, and vice-versa;

(g) fourth optical means located adjacent said scanner and between said third optical means and said detector for receiving the second light beam as it is reflected from said facets and for directing the second light beam onto said input of said detector means;

(h) means for preventing simultaneous receipts of the first and second light beams on said detector means input; said means located between said scanner and said detector; and,

(i) means connected to said output of said detector means for receiving and processing signals resulting from the first and second light beams.

Compl. Specn. 11 pages.

Drg. 3 sheets.

CLASS : 24 A

160333

Int. Cl. : B₁ 66 B - 5/02, 5/16.**"PROGRESSIVE SAFETY DEVICE FOR BRAKING AN ELEVATOR CAR OR COUNTERWEIGHT".**

Applicant : OTIS ELEVATOR COMPANY, A CORPORATION OF THE STATE OF NEW JERSEY, U.S.A., LOCATED AT TEN FARM SPRINGS, FARMINGTON, CONNECTICUT 06032, UNITED STATES OF AMERICA.

Inventors : WERNER KOPPENSTEINER.

Application for Patent No. 158/Del/84 filed on the 22nd February, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

A progressive safety device for braking an elevator car or counterweight, characterized by;

a housing, said housing being attached to the elevator car or the counterweight, and enclosing within it a guide rail;

a brake shoe, said shoe being attached to the housing and located on one side of the rail;

a spring assembly, said assembly being attached to the housing and defining a tapered area on a second side of the rail opposite said one side; and

a roller, said roller being located within said tapered area and adapted to be connected to a governor connected to the car or counterweight for being directed initially towards the narrow end of said area by the governor to engage the rail and there upon be forced progressively further in the narrow end by rolling on the rail as the car or counterweight moves.

Compl. Specn. 10 pages.

Drg. 1 sheet.

CLASS : 102 C & 135.

160334

Int. Cl. : F 03 b 17/00.

"WATER ENGINE".

Applicant : AUR HYDROPOWER LIMITED, A BRITISH COMPANY, OF NEW COURT, ST. SWITHIN'S LANE, LONDON EC4, ENGLAND.

Inventor : SMITH IAIN MARTIN.

Application for Patent No. 176/Del/84 filed on 28th Feb., 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

8 Claims

A water engine comprising at least two upright chambers to contain water, a float in each chamber, means to mount each float for vertical reciprocal movement in its respective chamber, at least one inlet to supply water from a head of water to each chamber, at least one outlet to allow water to exit from each chamber, valve means to control the water inlet and outlet so that while water is being introduced into any one of the chambers, water is prevented from flowing out of that chamber whilst water is allowed to flow out of the other chamber, the changing levels of water in the chambers causing the floats alternatively to rise and fall in their respective chambers, one float rising as the other float falls, a rocking beam, means for mounting the rocking beam for pivotal movement about a substantially horizontal axis, said mounting means being intermediate the ends of the rocking beam, means pivotally connecting each float directly to the rocking beam, one to either side of said axis, whereby the alternate rising and falling motion of the floats in their respective chambers causes the rocking beam to oscillate pivotally about its axis, at least one piston and cylinder assembly, means pivotally connecting the assembly between the rocking beam or a member movable therewith and one of the chambers or a member connected to one of the chambers and not movable with the rocking beam so that the pivotal oscillation of the rocking beam causes relative movement between the piston and cylinder, the relative movement between the piston and cylinder being used to provide a supply of fluid under pressure.

Compl. Specn. 15 pages.

Drg. 3 sheets.

CLASS : 39 C & 40 F.

160335

Int. Cl. : C01c 1/00.

"IMPROVED EXOTHERMIC CATALYTIC REACTOR".

Applicant : EXXON RESEARCH & ENGINEERING COMPANY, A CORPORATION OF DELAWARE, UNITED STATES OF AMERICA, CARRYING ON BUSINESS AS A COMPANY FOR THE HOLDING OF PATENTS AND GRANTING LICENSES THEREUNDER, AND TECHNICAL DEVELOPMENT AND RESEARCH WORK AT 200 PARK AVENUE, FLORHAM PARK, NEW JERSEY, UNITED STATES OF AMERICA.

Inventors : ROBERT MICHAEL OSMAN & LARRY JOSEPH SHULTK.

Application for Patent No. 177/Del/84 filed on 28th February, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

7 Claims

An improved exothermic catalytic reactor having at least two catalytic beds arranged for sequential gas flow there-through; gas supply means such as herein described for introducing a gas feedstream to the first of said catalyst beds for partial reaction of said gas feedstream therein; interbed gas cooling means for cooling the gas effluent from each catalyst bed to remove heat therefrom prior to passing said gas effluent to the next of said sequentially arranged catalyst beds and means such as herein described for removing a gaseous effluent from the last of such catalyst reactor beds as said

gas product, the improvement wherein said reactor additionally comprises at least one indirect reheat exchange for heating at least a portion of said last catalyst bed effluent gas by indirect heat exchange with a heating fluid comprising at least a portion of the gaseous effluent from at least one other of said reactor beds prior to withdrawal of said product gas from said reactor.

Compl. specn. 54 pages.

Drg. 11 sheets.

CLASS : 71 E.

160336

Int. Cl. : E02f 3/10.

"AN EXCAVATING IMPLEMENT IN COMBINATION WITH A MOUNTING THEREFOR".

Applicant : ESCO CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF OREGON, U.S.A., OF 2141 N. W. 25TH AVENUE, PORTLAND, OREGON 97210, U.S.A.

Inventor : FREDERICK CHARLES HAHN.

Application for Patent No. 201/Del/84 filed on 5th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

9 Claims

An excavating implement in combination with a mounting for positioning said implement in a variety of attitudes comprising :

a metal support having an outwardly facing recess, said excavating implement having a penetrating end and a mounting end, said mounting end having a shank mounted in said recess and means coupling said support and said excavating implement for maintaining the latter in a predetermined attitude,

said shank having a spherical zonal exterior wall spaced from said mounting end and an end wall at said mounting end, said recess having an interior wall portion positioned in bearing relation to said shank spherical zonal exterior wall, said shank in the portion between spherical zonal exterior wall and said end wall being spaced from the wall of said recess confronting said portion,

said spaced between said confronting interior wall of said recess and shank portion being filled with a thermoplastic material.

Compl. specn. 12 pages.

Drg. 1 sheet.

CLASS : 145 E₁, a.

160337

Int. Cl. : D21—3/00.

"A CONTINUOUS FIBER PULPING PROCESS AND MULTISTAGE DIGESTER FOR CARRYING OUT THE PROCESS".

Applicant : PROCESS EVALUATION AND DEVELOPMENT CORPORATION, A DELAWARE CORPORATION, OF 3400 INTERNATIONAL BUILDING, DALLAS, TEXAS 75270, U.S.A.

Inventor : EDUARDO JOEL VILLAVICENCIO.

Application for Patent No. 216/Del/1984 filed on 7th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

16 Claims

A continuous fiber pulping comprising contacting a cellulose fiber source with steam at an elevated pressure in a first tubular chamber for a first period of time; removing said cellulose fiber from said first tubular chamber and rapidly decreasing

the pressure on said cellulose fiber source at least 1 Kg/sq. cm. to a first lower pressure to thereby at least partially separate the cellulose fibers; contacting said at least partially separated cellulose fibers with steam at said first lower pressure in a second tubular chamber for a period of time which is 1.1 to 5 times the period of time said cellulose fibers are in said first tubular chamber; removing said cellulose fibers from said second tubular chamber and rapidly reducing the pressure on said cellulose fibers at least 1 Kg/sq. cm.

Compl. Specn. 18 pages.

Drgs. 2 sheets.

CLASS : 108 B₂ & 85 R.

160338

Int. Cl. : C21b-7/00.

A BLAST FURNACE FOR SMELTING SLAG.

Applicant : RISHI INDUSTRIAL & MINING CONSULTANTS, A PARTNERSHIP FIRM, WHOSE PARTNERS ARE JITENDRA KUMAR RISHI AND JAGDISH CHANDRA RISHI, OF RISHI SADAN, 35-36, NEHRU PLACE, NEW DELHI-110 019, INDIA.

Inventor : JITENDRA KUMAR RISHI.

Application for Patent No. 294/Del/1984 filed on 4th April, 1984.

Divisional to Patent Application No. 571/Del/1980 filed on 5th August, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

6 Claims

A blast furnace for smelting slag obtained from a fine ore smelter, comprising a shaft having a refractory brick wall surface characterized in said shaft being enclosed within an outer metallic casing, a plurality of tuyeres for introduction of air into the furnace chamber defined by said shaft, a tap hole being provided at the base of said chamber for discharge of the molten metal, a chimney provided at the upper end of said chamber, and a charging door provided in said chimney for introduction of said slag.

Compl. Specn. 7 pages.

Drg. 1 sheet.

CLASS : 108 B₂ & 85 R, O.

160339

Int. Cl. : C21b-7/00.

"A SMELTER FOR PRODUCING TIN METAL".

Applicant : RISHI INDUSTRIAL & MINING CONSULTANTS, A REGISTERED PARTNERSHIP FIRM WHOSE PARTNERS ARE JITENDRA KUMAR RISHI AND JAGDISH CHANDRA RISHI, OF RISHI SADAN, 3536- NEHRU PLACE, NEW DELHI-110 019, INDIA, AN INDIAN COMPANY.

Inventor : JITENDRA KUMAR RISHI.

Application for Patent No. 571/Del/1980 filed on 5th August, 1980.

Complete Specification left on 24th November, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

11 Claims

A smelter for smelting tin concentrates comprising a reverberatory furnace and a precipitating chamber in communication with the furnace, said reverberatory furnace having burners disposed at or in the vicinity of a first wall of said furnace, an outlet provided on a second wall of said furnace for the discharge of flue gases, said second wall being opposite to said first wall, said precipitating chamber being adapted to receive the flue gases from said furnace, and having separating means for causing a separation of tin oxide entrained in the flue gas stream.

Provl. Specn. 7 pages.

Compl. Specn. 16 pages.

Drgs. 2 sheets.

CLASS : 116 C.

160340

Int. Cl. : B65g 15/30 & 47/52.

"A LINK UP OR CONVEYING APPARATUS BETWEEN A FEED AND DISCHARGE STATION".

Applicant : MOLINS OF INDIA LIMITED, HAVING A PRINCIPAL OFFICE AT A-7, INDUSTRIAL ESTATE, MOHALI-160 051, PUNJAB, INDIA, AN INDIAN COMPANY.

Inventor : RAMESH KUMAR JHINGAN.

Application for Patent No. 295/Del/84 filed on 4th April, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

6 Claims

A link up or conveying apparatus disposed between a feed station and a discharge station comprising a feed drive roller at the feed station and a discharge drive roller at the discharge station, said feed roller driven at a speed different to that of said discharge roller a lower base frame between said drive rollers and having mounted therein a plurality of lower idler rollers spaced from each other, a top or upper frame disposed above of said lower base frame and having mounted therein a plurality of upper idler rollers spaced from each other, at least one trolley displaceable between the base frame and the top frame and having lower and upper idler rollers, the lower rollers of the trolley coacting with the lower rollers of the lower base frame through an endless conveyor to form a plurality of first set of rollers, the upper rollers of the trolley coacting with the upper rollers of the top frame through said endless conveyor to form a plurality of second pair of rollers, said endless conveyor having a plurality of pockets spaced from each other for conveying articles from the feed station of the discharge station, the lengths of parts of said endless conveyor between said first pairs of rollers and a said second pairs or rollers, being variable and one or more sensor means for rendering feed station and discharge station inoperative and limiting the movement of trolleys.

Compl. Specn. 12 pages.

Drgs. 2 sheets.

CLASS : 127 L.

160341

Int. Cl. : E 02 b 9/08.

ENERGY CONVERTOR.

Applicant & Inventor : THURUTHIPARAMBIL KUMARAN PREM KUMAR, OF THURUTHIPARAMBIL, E.R.C. ROAD, COCHIN-682 031, KERALA, INDIA.

Application No. 14/Mas/84 filed January 11, 1984.

Complete Specification left on 10th April, 1985.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, Madras.

6 Claims

An energy convertor for converting energy from waves into mechanical energy comprising of a float attached to the lower end of a toothed gear rod mounted vertically between a base plate and a top plate fixed on two vertical plates mounted on the said base plate, a toothed free wheel the axle of which being mounted on the two vertical plates with its axis parallel to the base plate and meshing with the teeth of the said gear rod, the arrangement being such that as the float pushes the gear rod upwards, the axle of the free wheel rotates in one direction.

Provl. Specn. 7 pages.

Drg. 1 sheet.

Compl. Specn. 10 pages.

Drg. 1 sheet.

CLASS : 107 G & H.

160342.

Int. Cl. : F 02 b 15/00.

"FUEL INJECTION QUALITY CONTROLLING DEVICE FOR DIESEL ENGINE WITH VERTICAL CRANKSHAFT".

Applicant : YANMAR DIESEL ENGINE CO. LTD., A JAPANESE CORPORATION OF 1-32, CHAYAMACHI, KITA-KU, OSAKA-SHRI, OSAKA-FU, JAPAN.

Inventors : 1. KOICHI AMEMORI, 2. YOSUKE TAKAHASHI, 3. MANBU MIYAZAKI, 4. HIROAKI TSUKAHARA, 5. TOSHIHIKO KAWABE, 6. TOSHIO BANBA.

Application No. 19/MAS/84 filed 13th January 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Madras Branch.

8 Claims.

A fuel injection quantity controlling device for a diesel engine having a vertically directed crankshaft, characterized in that a control rod to be driven by a governor to reciprocate is mounted parallel to the crankshaft while a unit injector having a plunger is mounted perpendicular to the crankshaft and that a control lever is fixed to said plunger of the unit injector, said control lever having a free end engageable with said control rod, an adjuster pin engageable with said control rod fixed to the unit injector is mounted to said control rod through an adjuster to reduce the effective stroke of the plunger as the control rod is moved towards below.

(Compl. Specn. 16 pages).

(Drgs. 7 Sheets).

CLASS : 35 E.

160343.

Int. Cl. : B 22 d 41/00.

"A MOLTEN METAL HANDLING VESSEL HAVING AN EXPENDABLE SIDEWALL LINING".

Applicant : FOSECO TRADING A.G. A SWISS COMPANY OF LANGENJOHNSTRASSE 9, 700 CHUR, SWITZERLAND.

Inventors : 1. MICHEL SIMON BOLLY, 2. JAMES FLOOD.

Application for Patent No. 29/Mas/84 filed on 19th January 1984.

Convention dated on 20th January, 1983 No. 830 1543. (U.K.)

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

18 Claims.

A molten metal handling vessel having an expendable sidewall lining comprising at least one preformed, shaped, refractory heat-insulating article, the said heat insulating article having a zone of high resistance to erosion by molten metal and accompanying slag such that atleast a part of the high erosion resistance zone and at least a part of the heat insulating article face into the vessel.

(Complete Specification 18 Pages)

(Drgs. 2 Sheets)

CLASS : 107 G.

160344.

Int. Cl. : F 23 n 1/00.

A DEVICE FOR AUTOMATICALLY DETERMINING THE COMPOSITION OF FUEL COMPRISING ALCOHOL AND PETROL SUPPLIED TO A COMBUSTION UNIT.

Applicant : INSTITUT FRANCAIS DU PETROLE, A FRENCH BODY CORPORATE, OF 4, AVENUE DE BOIS PREAU, 92502 RUEIL MALMAISON, FRANCE.

Inventors : PAUL DEGOBERT, 2. MICHEL MAUTE, 3. GERALD BANET.

Application No. 139/MAS/84 filed 2nd March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Madras Branch.

12 Claims.

A device for automatically determining the composition of fuel comprising alcohol and petrol supplied to a combustion unit, comprising a sensor having a light source, emitting a first light beam in the near infra-red having a wave length between 700 and 1700 nano-meters, through a measuring cell through which flows said mixture and a first photometer for measuring the degree to which this beam is absorbed by said mixture flowing through the cell for one wave length chosen in the wave length range corresponding to the near infra-red between 700 and 1700 nanometers, the degree of absorption being related to the alcohol content of the mixture and wherein said first photometer is connected to means for adjusting the fuel composition of the combustion unit.

(Complete Specification 15 ptges).

(Drgs. 5 Sheets).

CLASS : 145 B & 155 B

160345

Int. Cl. : C 08 g 37/08, 37/18.

B 21 h 3/50.

"PROCESS FOR PRODUCING HARD PAPER."

Applicant : DYNAMIT NOBEL AKTIENGESELLSCHAFT OF POSTFACH 1209, 521 TROISDORF, WEST GERMANY, A COMPANY ORGANIZED UNDER THE LAWS OF THE REPUBLIC OF GERMANY.

Inventor : ARNOLD FRANZ, DR. ERNEST SCHNEIDER, GREGOR JAKOBSSHAGEN.

Application for Patent No. 147/Mas/84 filed on 9th March 1984.

Division of Application No. 434/Cal/81 filed on 23rd April 1981. (153619)

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Madras Branch.

9 Claims.

A process for producing a hard paper as herein defined which comprises impregnating cellulose-containing materials such as herein described with a mixture of 50 to 80% by weight phenol resol resin solution, 40 to 70% by weight cresol resin solution and a plasticizer, and drying and hardening the impregnated material to form the desired hard paper.

(Complete Specification 19 pages).

(Drg. Nil).

CLASS : 144 A, 151-E

160346

Int. Cl. : F 16 I 9/00.

Convention Date on 30th March 1983. No. 8308749.
(Great Britain) .**A PIPE FOR HIGHLY ABRASIVE FLOWING MEDIA AND THE PROCESS OF PRODUCING THE PIPE.**

Applicant : MITSUI & CO. LTD. OF 1-2-1 OHTEMACHI, CHIYODA-KU, TOKYO, JAPAN AND MIYAMA ENGINEERING CO. LTD., 1-8-7 YAMASAKA, HIGASHI-SUMIYOSHI-KU, OSAKA, JAPAN, BOTH JAPANESE COMPANIES.

Application No. 179/MAS/84 filed 19th March 1984.

Inventors : KAZUO MEGURO TSUNENOBU IMANISHI.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

13 Claims

A pipe for highly abrasive flowing media having a lining on the inner face of the wall of the pipe, said lining comprising at least one layer made up of a matrix of synthetic resin or of rubber and of ceramic particles seated therein.

Compl. specn. 10 pages.

Drg. 1 sheet

CLASS : 34 C

160347

Int. Cl. : Co 8 b 1/00.

A PROCESS FOR PREPARING REDISPERSIBLE MICROFIBRILLATED CELLULOSE.

Applicant : ITT INDUSTRIES, INC., A DELAWARE CORPORATION OF 320 PARK AVENUE, NEW YORK 10022, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventors : FRANKLIN WILLARD HERRICK.

Application No. 190/MAS/84 filed 22nd March 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

9 Claims

A process for preparing dry redispersible microfibrillated cellulose comprising microfibrillating cellulose by repeatedly passing a liquid suspension of cellulose fibres through a high pressure homogenizer having a small diameter orifice in which said suspension is subjected to a pressure drop of at least 3000 PSI followed by a high velocity decelerating impact against a solid surface, said microfibrillated cellulose having a settling volume after 60 minutes in a 0.5% by weight suspension in water of greater than 60% and drying the suspension of microfibrillated cellulose at a temperature of 25° to 105° C in the presence of a compound capable of substantially inhibiting hydrogen bonding between the fibrils in the cellulose.

Compl. specn. 24 pages.

No Drawing

CLASS : 55 D 2

160348

Int. Cl. : A 01 n 9/00.

METHOD OF PREPARING AN EMULSIFIED PESTICIDAL COMPOSITION.

Applicant : THE DOW CHEMICAL COMPANY, OF 2030 DOW CENTER, ABETT, ROAD, MIDLAND, MICHIGAN 49640, UNITED STATES OF AMERICA, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF STATES OF DELAWARE.

Inventor : MULQUEEN PATRICK JOSEPH.

Application for Patent No. 203/Mas/84 filed on 28th March 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

16 Claims

A method of preparing an emulsified pesticidal composition which comprises emulsifying

a miscible combination of a polar and nonpolar solvent,

a pesticide compound such as herein described which is insoluble or sparingly soluble in water, but which is soluble in the combination of polar and nonpolar solvents,

at least one emulsifier such as to cause or permit on emulsification of the concentrate with water the formation of an emulsion having an average droplet size not exceeding 10 microns, and

a polymeric material such as herein described, which is soluble in the polar solvent, and adapted to remain within the dispersed phase on emulsification of the concentrate and to form a solid or semi-solid matrix to prevent coalescence of the emulsion particles, with water.

Compl. specn. 39 pages.

No Drawing

CLASS : 14 A₂

160349

Int. Cl. : H 01 m 39/02.

RECHARGEABLE LEAD ACID ROUND CELLS.

Applicant & Inventors : MYSORE SESHADRI SATHYANARAYANA AND MYSORE SESHADRI NARAYANA, No. 4, I CROSS, ANNAYAPPA BLOCK, SESHADRI PURAM, BANGALORE-560 020, KARNATAKA STATE, INDIA.

Application No. 213/Mas/84 filed March 30, 1984.

Complete specification left on 15th October, 1984.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, Madras.

4 Claims

A rechargeable lead acid round cell wherein a cylindrical plastic container houses a positive electrode bent in the form of either the letter 's' or 'e' positioned concentrically within a negative electrode bent in the form of the letter 'o' and the negative electrode is riveted along with a flexible sealing washer to the plastic container and the exposed end of the rivet head is covered by a metallic negative terminal plate and the positive electrode after being encased successively by a layer of glass wool mat, a plastic ribbed spacer and another layer of glass wool mat, is positioned concentrically within the negative electrode, and the cavities in the positive electrode are filled by rolls of glass wool mat supported by plastic frames, the aforesaid electrodes being kept in a wet condition by soaking in dilute sulphuric acid before the electrolyte is filled in, and an electrolyte in the form of a thioxotropic gel is filled in the container containing the assembly of electrodes, and a perforated plastic splash arrester is fitted on to the central lead post attached to the diametrical member of the positive electrode so as to cover the electrodes, and a lid, having a vent hole covered by a flexible ring valve, is firmly bonded to the container housing the electrodes, and flexible sealing bushes are provided between the central lead post of the positive electrode and the lid, and the exposed end of the central lead post is connected to a metallic positive terminal, and glass wool mat rings are provided in

the circular cavity provided in the lid, and a plastic flap covers the circular cavity in the lid with a provision for a passage to let out the gases, and the exposed ends of the positive and negative electrodes are connected to the metallic terminal plates.

Provl. Specn. 4 pages.
Compl. Specn. 10 pages.

Drg. Nil.
Drg. 2 sheets.

CLASS : 85 J. [XXXI]. 160350
Int. Cl. : F 27 b 15/14.

FLUIDIZING APPARATUS WITH BUILT-IN HEAT EXCHANGER.

Applicant : CARBONNAGES DE FRANCE (Establishment Public) of 9, Avenue Percier, 75008 PARIS, France, A French Public Establishment.

Inventor : GERAD CHRYSOSTOME, ALAIN FEUGIER, JEAN-CLAUDE KITA.

Application No. 225/Mas/1984, Filed 31st March, 1984.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, Madras.

4 Claims

Fluidizing apparatus with built-in heat exchanger comprising a fluidized bed, including a grid defining cavities, man fluidizing gas blower channels connected to said cavities, swellings at the intersections of said cavities, openings in said swellings and complementary channels passing through said openings and having upper ends disposed above the level of said grid and being adapted to blow a complementary gas into an active area disposed above each swelling, and further comprising a heat exchanger adapted to exchange heat with said fluidized bed and at least one tube in said heat exchanger shaped to extend over said grid and through a plurality of said active areas.

Compl. Specn. 10 pages Drgs. 3 sheets.

OPPOSITION PROCEEDINGS

An opposition has been entered by Research Designs and Standards Organisation Ministry of Railway, Lucknow to the grant of a Patent on application No. 151007 made by Omark Industries as notified in the Gazette of India, Part III Section 2 dated 27-8-83 has been partly allowed and ordered that the Patent to be sealed subject to amendment of the specifications.

PATENTS SEALED

150950 153521 157032 157070 157072 157076 157078
157080 157082 157085 157087 157088 157091 157096
157664 157715 157718 157719 157720 157732 157733
157736 157741 157742 157743 157744 157745 157746
157747 157748 157764 157772 157859 157860 157874
157875 157881 157884 157885 157889 157891 157916
157917.

AMENDMENT PROCEEDINGS UNDER SECTION 57

Notice is hereby given that Anstalt Mura, of Jozaz 863 Balzers, principality of Liechtenstein, a Liechtenstein company have made an application under section 57 of the Patents Act, 1970 for amendment of application form and specification of their application for Patent No. 157703 for "Heat exchanger for the progressive cooling of a hot gas stream in a casino". The amendments are by way of correction. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 214, Acharva Jagadish Bose Road, Calcutta-700017 or copies of the same can be had on

payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed Form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall left within one month from the date of filling the said notice.

RENEWAL FEES PAID

138736	138777	139498	139499	139649	140662	142180
142510	142859	143099	143157	143296	143365	143750
144077	144426	144427	144428	144429	144744	144978
145093	145110	145222	145425	145427	145538	145575
145798	145970	146000	146262	146469	147270	147487
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148489	148492	148493	148563	148652	148653	148705
148736	148757	148815	148833	148836	149038	149413
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149907	149909	149931	150012	150030	150119	150293
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150991	151073	151106	151143	151178	151197	151438
151551	151949	151953	152010	152011	152055	152057
152058	152136	152148	152170	152214	152235	152237
152312	152327	152475	152522	152525	152606	152607
152630	152657	152680	152830	152895	152947	152978
153020	153021	153162	153165	153224	153268	153319
153443	153586	153599	153943	154079	154115	154173
154176	154179	154226	154285	154287	154288	154306
154307	154341	154374	154379	154386	154392	154397
154408	154671	154856	154895	154937	154951	155077
155167	155442	155443	155598	155645	155775	155854
155890	155919	155930	155931	155938	156001	156031
156032	156054	156071	156151	156153	156156	156157
156159	156219	156220	156281	156316	156372	156373
156433	156458	156474	156496	156538	156540	156611
156668	156691	156769	156773	156774	156792	156833
156859	156880	156881	156903	156904	156906	156910
156911	156927	156929	156951	156953	156958	156964
156975	156978	156979	156980	156981	156984	157005
157017	157045	157068	157071	157075	157104	157115
157119	157127	157150	157152	157159	157243	157245
157410	157531	157537	157572	157592	157659	157683
157767	157778	157923				

RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application for restoration of Patent No. 153224 dated the 18-9-79 made by Union Carbide Corporation on the 8-9-86 and notified in the Gazette of India, Part III, Section 2 dated the 3-1-87 has been allowed and the said patent restored.

(2)

Notice is hereby given that an application for restoration of Patent No. 154671 dated the 29-8-80 made by Bal Krishan Gupta on the 23-9-86 and notified in the Gazette of India, Part III, Section 2 dated the 3-1-87 has been allowed and the said patent restored.

REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 157682. Rikhab Enterprises, of 41 Ekambareswarar Agraharam, 1st Floor, Madras-600 003, Tamil Nadu, India, a registered Partnership firm, "a Hot Tiffin Carrier". 19th November, 1986.

Class 1. No. 157730. Recket Engineering Corpn. Pvt. Ltd., P.B. No. 178, 33 Udyamnagar Ext., Kolhapur-416 001, Maharashtra State, India, an Indian Company, a "Fuel Tank for Internal Combustion (I.C.) Engines". 27th November, 1986.

Class 3. No. 157028. Phenoweld Polymer Private Limited, Saki Vihar Lake Road, Bombay-400 072, Maharashtra, India, an Indian Company. "Flush Cistern". 7th May, 1986.

Class 3. No. 157263. Dolly Exports Private Limited, an Indian Company of 2A, Shakespeare Sarani, Calcutta-700 071, West Bengal, India. "SOFA-CUM BED". 16th July, 1986.

Class 3. Nos. 157451, 157452, 157453, 157454, 157455, 157456, 157457, 157458, 157459, 157460, 157461, 157462. Paradise Watch Company, a registered Indian Partnership firm. "Timepiece Stand". 19th September, 1986.

Class 3. No. 157504. Shree Krishna Keshav Laboratories Limited, Amraiwadi Road, Ahmedabad-380 008, Gujarat, India, an Indian Company. "A Hanger For Interveneous Bottle". 6th October, 1986.

Class 3. Nos. 157685, 157686, 157687, 157688, 157689, 157690. Fiberglass Mouldings Corporation, a Partnership Firm. "Tent/Shelters". 20th November, 1986.

Extn. of Copyright for the Second period of five years.

Nos. 150596, 151479.

Class-3.

Extn. of Copyright for the Third period of five years.

No. 144929.

Class-1.

Nos. 144996, 144997, 144998.

Class-3.

Nos. 144993, 144994, 144995.

Class-10.

R. A. ACHARYA

Controller General of Patents, Designs
and Trade Marks.